



IMPERIAL AGRICULTURAL
RESEARCH INSTITUTE, NEW DELHI.

G M E L I N ' S C H E M I S T R Y .

The Concluding Volume (the 18th) of the
H A N D - B O O K O F C H E M I S T R Y ,

Translated and Edited by
H E N R Y W A T T S , B . A . , F . R . S . ,
Is now ready.

H A R R I S O N A N D S O N S ,
BOOKSELLERS TO HER MAJESTY AND H.R.H. THE PRINCE OF WALES,
59, PALL MALL, LONDON, S.W.

October 20, 1871.

MESSRS. HARRISON and SONS have to announce that, in accordance with the arrangements made with the Council of the Cavendish Society, they have completed the above important work.

Subscribers are informed that this, the concluding volume, together with the Index, will be forwarded to all those who have paid their subscription for the year 1864.

Several of the volumes being now out of print, and others very scarce, subscribers desirous of completing sets are requested to make early application.

Messrs. Harrison and Sons are enabled to offer, for a limited period, complete sets of the Organic Chemistry (12 volumes) for Four Guineas, separate volumes at 10s. 6d. each.

59, Pall Mall, London, S.W.

CAVENDISH SOCIETY PUBLICATIONS.

THE following Works can now be had of HARRISON and SONS, 95,
Pall Mall, at the prices affixed :—

HAND-BOOK OF CHEMISTRY, by LEOPOLD GMELIN, translated and edited by HENRY WATTS, B A , F R S

INORGANIC CHEMISTRY. 6 vols., demy 8vo, cloth.
Some of these volumes are out of print A new edition of vol 1, and a few of
vols. 4, 5, and 6, can be had to complete sets, 10s 6d. each

ORGANIC CHEMISTRY 12 vols., demy 8vo, cloth,
complete for £4 4s ; separate vols , 10s 6d.

LIFE AND WORKS OF CAVENDISH, by Dr. GEORGE
WILSON 1 vol, demy 8vo, cloth 7s

LIFE AND SCIENTIFIC RESEARCHES OF DALTON, by
Dr W C HENRY 1 vol, demy 8vo, cloth, 7s

LAURENT'S CHEMICAL METHOD, translated by Dr. OLDING,
F.R.S 1 vol , demy 8vo, cloth, 7s

ELEMENTS OF CHEMICAL AND PHYSICAL GEOLOGY,
by GUSTAV BISCHOF, Ph D Edited, and in part translated from the Manuscript of the Author, by BENJ. H PAUL, Ph D 3 vols , demy 8vo, cloth,
£1 11s. 6d.

LEHMANN'S PHYSIOLOGICAL CHEMISTRY, translated
and edited by Dr G E DAY, F R S *The first volume of this work is out of
print.* The 2nd and 3rd vols , demy 8vo, cloth, 7s. each.

DR. OTTO FUNKE'S ATLAS OF PHYSIOLOGICAL
PLATES 7s.

HARRISON AND SONS,

BOOKSELLERS TO HER MAJESTY AND HRH THE PRINCE OF WALES.

59, PALL MALL, LONDON, S.W

INDEX
TO
GMELIN'S HANDBOOK
OF
CHEMISTRY.

BY
HENRY WATTS, B.A., F.R.S., F.C.S.,
Editor of the Journal of the Chemical Society

LONDON:
HARRISON, 59, PALL MALL,
BOOKSELLER TO HER MAJESTY, AND H.R.H. THE PRINCE OF WALES.

LONDON

HARRISON AND SONS, PRINTERS IN ORDINARY TO HER MAJESTY ST. MARTIN'S LANE.

INDEX

TO

GMELIN'S HANDBOOK OF CHEMISTRY.

N.B. *The figures in thick type denote the volumes.*

A.

<i>Abies balsamea</i> , Turpentine from	18, 19	Acetamide, compounds of	12, 513
<i>Abies excelsa</i> , Oil from the seeds of	16, 316	" preparation of, from acetate of ammonia	12, 513
" Turpentine from	18, 18	" with Bacetamide	12, 516
<i>Abies pectinata</i> , Turpentine from	18, 18	Acetamidide	11, 314
Abietate of Ethyl	18, 7	Acetate, Acetic	8, 334
Abietates, metallic	18, 5	" of Allyl	10, 543; 13, 514
Abietic acid, formation of Sylic acid from	17, 318	" Alumina	8, 303, 13, 443
Abietic Anhydride	18, 8	" Amarine	12, 197
Abietin	18, 7, 18	" Ammonia	8, 294
Abietinic Acid	18, 18	" Amyl	11, 69
Absolute strength of Affinity	1, 136	" Aniline	11, 262
" zero of Heat	1, 302	" Atropine	16, 455
Absorbent earths	3, 133	" Auric	8, 334
Absorption, compounds formed by	1, 86	" of Baryta	8, 301
" of Heat	1, 213	" Benzidine	11, 340
" Heat accompanying vaporization	1, 272	" Benzyl	12, 52
" Light	1, 165	" Benzylene	12, 224
Absynthum	17, 354	" Berberine	17, 195
Acacia, Oil of	14, 356	" Biamidobenzoic Acid	12, 150
Accechloride of Platinum	9, 31	" Bichloromethylic	9, 231
Acediamine	12, 546	" Bichlorovanic	9, 235
Acediamine. Hydrochlorate	13, 535	" of Bismuth	8, 308
<i>Acete d'Amacey</i>	14, 356	" Butyl	10, 107
Acephalæ, Byssus of	18, 372	" Cadmium	8, 310
Acephoric Acid	9, 6	" Capryl	13, 200, 587
Acephosgenic Acid	9, 7	" Cerium	8, 303
Aceplatinous Oxide	9, 37	" Cetyl	16, 375
Acetal 9, 38; 12, 519; 18, 452, 455, 476		" Chelery thrine	17, 159
" formation of Aldehyde from	13, 437	" Chelidonine	17, 166
Acetamidate of Mercury	12, 545	" Cholesteryl	13, 117
" Silver 12, 545		" Chromic	8, 306
Acetamide	9, 246; 13, 535	" Chromous	8, 305
		" of Cinchonidine 17, 227, 229, 613	
		" Cinchonine 17, 216	
		" Cobalt 8, 322	
		" Cocaine	16, 303
		" Codeine	17, 336

GMELIN'S HANDBOOK OF CHEMISTRY.

Acetate of Corydaline	17, 609	Acetate of Morphine ..	16, 434
„ Cuminic	14, 156	„ Narcotine ..	15, 145
„ of Cumoglycol ...	14, 153	„ Nickel .	8, 325
„ Cumylene ..	14, 153	„ Nicotine ..	14, 237
„ Cupric oxide .	8, 323	„ Nitoharmaline	16, 12
„ Cupric oxide and		„ Oxyacanthine	17, 19
ammonia .	8, 326	„ Phloramine .	15, 7
„ Cupric oxide and lime	8, 328	„ Perchloromethylic	9, 23
„ Cupric, with mercuric		„ Perchlorovinic	9, 24
chloride ..	8, 332	„ of Picoline ..	11, 27
„ Cuprous ..	8, 323	„ Platinous	8, 33
„ of Cyanethine .	13, 237	„ of Potash ..	8, 29
„ Ethyl .	8, 493	„ Potash, emission of	
„ Ethyl, action of ter-		light in the crystal-	
chloride of phospho-		lisation of .	1, 26
rus on .	10, 488	„ Quadrichlorovinic	9, 235
„ Ethyl, decomposition		„ of Quinidine ..	17, 301
of, by potassium ..	8, 499	„ Quinine ..	17, 289
„ Ethylene	12, 502	„ Quintichlorovinic	9, 238
„ Ethylene, basic ?	13, 430	„ of Rhodium ..	8, 334
„ Ethylstrychnine ...	17, 512	„ Salicylic acid	12, 245
„ Ferric	8, 320, 13, 446	„ Septichlorovinic	9, 239
„ Ferroso-ferric, use of		„ Sextichlorovinic	9, 238
crude, for steeping wood	7, 113	„ of Silver ..	8, 333
„ Ferrous	8, 320	„ Solanine ..	18, 97
„ of Furfurine ..	10, 381	Acetates of Soda ..	8, 299
„ Glucina .	8, 303	Acetate of Soda with mercuric	
„ Glycol .	12, 502	cyanide	8, 333
„ Gold .	8, 334	„ Stannethyl	9, 99
„ Harmaline	16, 119	Acetates, Stannous and Stannic	8, 310
„ Harmine	16, 107, 111	Acetate of Stibethyl ..	10, 527
„ Hydrargethyl	10, 532	„ Stibmethylethylum .	13, 503
„ Iron	8, 320	„ Strontia .	8, 302
„ Iron, action of heat		„ Strychnine	17, 502
on .	10, 512	„ Sycoceryl .	17, 44
„ Jamarine	17, 315	„ Terechloromethylic	9, 232
„ Lanthanum	8, 303, 12, 512	„ Terechlorovinic	9, 237
„ Lead	8, 310, 316	„ of Thorina .	8, 305
„ Lead, neutral, com-		Acetates of Tin .	8, 310
pound of, with ana-		„ Titanium	8, 305
cardate of lead	17, 521	Acetate, Uanic ..	8, 306
„ Lead, neutral, electro-		„ Uranous ..	8, 306
lysis of .	1, 463	Acetates of Uranium, double,	
„ Lime	8, 302	8, 307, 320, 333; 13, 442	
„ Lithia ..	8, 300	Acetate of Vanadium	8, 305
„ Magnesia .	8, 303	„ Ytria .	8, 303
„ Manganous	8, 303	„ Zinc ..	8, 303
„ Mercuric	8, 332	„ Zinco-uranic .	8, 310
„ of Mercuric oxide and		„ of Zirconia .	8, 305
ammonia .	8, 332	Acetates, Metallic	8, 294
„ Mercuric, with mercuric		Acetic Acetate ..	8, 334
cyanide .	8, 332	Acetic Acid .	12, 512
„ Mercurous ..	8, 330	„ aqueous .	8, 293
„ of Mercurous oxide and		„ anhydrous	8, 334
ammonia .	8, 332	„ combinations of	8, 291
„ Methyl ..	8, 484	„ decompositions of	8, 291
„ Methylene ..	13, 392	„ expansion of, by	
„ Methylstrychnine .	17, 519	heat .	1, 231
„ Molybdenum	8, 305	„ formation of	8, 233

INDEX.

Acetic Acid, formation of Marsh-gas by heating, with a fixed alkali . . .	7, 252	Acetone, decomposition of, by ammonia and sulphide of carbon . . .	9, 14
„ glacial, impurities of	8, 287	„ decomposition of, by ammonia and sulphur	9, 12
„ glacial, percentage of, in aqueous acetic acid	8, 298	„ decomposition of, by ammonia and sulphuretted hydrogen . . .	9, 14
„ glacial, preparation of	8, 287	„ decomposition of, by bichloride of platinum	9, 10
„ glacial, properties of	8, 290	„ decomposition of, by bichromate of potash	9, 10
„ impurities in . . .	8, 289	„ decomposition of, by bromine . . .	9, 5
„ literature of	8, 282	„ decomposition of, by chlorine . . .	9, 4
„ natural formation of	13, 442	„ decomposition of, by combustion . . .	9, 4
„ occurrence of, in turpentine-water	13, 442	„ decomposition of, by hydrate of potash . . .	9, 11
„ preparation . . .	8, 284	„ decomposition of, by decomposition of, by hydriochloric acid	9, 8
„ production of Methyl by electrolysis of . . .	7, 247	„ decomposition of, by iodic acid . . .	9, 8
„ sources of . . .	8, 283	„ decomposition of, by iodine and phosphorus	9, 9
„ supposed relative position of atoms in	7, 33	„ decomposition of, by nitric acid	9, 8; 13, 168
„ synthesis of	13, 442	„ decomposition of, by oil of vitriol	9, 8
Acetic Anhydride . . .	8, 334	„ decomposition of, by pentachloride of phosphorus	9, 9; 13, 168
„ compound of with Aldehyde	13, 440	„ decomposition of, by phosphoric acid	9, 9
Acetic Ether . . .	8, 493	„ decomposition of, by phosphorus . . .	9, 5
„ action of Chlorine on	13, 334	„ decomposition of, by potassium and sodium	9, 15; 13, 169
Acetic Salicylate . . .	12, 282	„ decomposition of, by quick lime	9, 16; 13, 171
Acetin . . .	9, 496	„ decomposition of, by red heat . . .	9, 4
Acetins, Glycolic . . .	13, 429	„ expansion of, by heat	1, 231
Aceto-arsenate, Cupric . . .	8, 329	„ formation of	9, 1
Aceto-benzoate of Lead . . .	12, 42	„ formation of Marsh-gas by heating with a fixed alkali . . .	7, 252
Acetobenzole Ether . . .	12, 52	„ Hevchlorinated	9, 5; 13, 167
Acetobenzole Ether . . .	12, 223	„ insoluble compound of, containing carbon and phosphorus . . .	9, 7
Acetobutyrate of Ethylene . . .	13, 433	„ Monochlorinated	13, 163
Acetobutyryn, Glycolic . . .	13, 433	„ Pentachlorinated	9, 5; 13, 165
Acetochlorhydrin . . .	9, 498; 13, 579	„ preparation of . . .	9, 1
Acetochlorobromhydrin . . .	13, 580	„ properties of . . .	
Aceto-cinnamic Anhydride . . .	13, 293	„ solution of Turpentine oil in	
Acetocuminic Anhydride . . .	14, 156		
Acetodichlorhydrin . . .	13, 579		
Acetoglucose . . .	15, 331		
Acetokimate of Lead . . .	16, 231		
Acetomannitan . . .	15, 375		
Acetomyristate of Lead . . .	16, 213		
Acetone . . .	9, 1		
„ and Ammonia, with Tannic acid . . .	15, 472		
„ bichlorinated . . .	13, 464		
„ brominated . . .	13, 464		
„ combinations of . . .	9, 16		
„ compound of, with bisulphite of ammonia . . .	13, 469		
„ compounds of, with alkaline bisulphites . . .	10, 522		
„ constitution of . . .	9, 4; 13, 462		
„ decomposition of, by ammonia . . .	9, 10		

GRIEHL'S HANDBOOK OF CHEMISTRY.

Acetone, solution of Volatile oils		Acetyl-chrysophanic Acid	.... 16, 177
in ..	.... 7, 169	Acetyl-cinchonine	.... 17, 234
Trichlorinated	.... 13, 465	Acetylene, compound of, with	
Acetones	.... 7, 44, 214	hæmoglobin ..	.... 18, 395
Acetic acid	.... 9, 37; 13, 473	Acetyla ..	.... 13, 485
Acetennine	.... 9, 10; 13, 378	Acetylum	.... 10, 537
Acetonitrate of Baryta	.... 13, 443	Acetyl-mercaptan	.... 8, 350
Acetonitrate of Strontia	.... 13, 443	Acetyl-neurine ..	.... 18, 382
Acetonitrile	.... 9, 294	Acetyl-phloroglucin	.... 15, 71
action of fuming sul-		Acetyl-urea	.... 9, 292
phuric acid on	.... 12, 485	<i>Achillea Millefolium</i> , Ferment-oil	
preparation of	.... 12, 542	of ..	.... 14, 406
relation of, to Ful-		Achillein	.... 18, 212
minic acid ..	.... 12, 553	Achmite	.... 5, 286
Acetonyl	.... 9, 14	Acid, Abietic	.... 18, 2
Acetonylamide	.... 9, 14	Abietinic	.... 18, 18
Acetopropionate of Silver	.... 9, 408	Abolic (of Berzelius)	.... 12, 451
of Soda	.... 9, 405	Acaphoric	.... 9, 6
Acetosacetyl	.... 12, 215, 13, 242	Acaphogenic	.... 9, 7
Acetostannethyl	.... 9, 101	Acetic ..	.... 8, 282, 12, 512
Acetosylamine	.... 12, 511	Acetonic	.... 9, 37, 13, 475
Acetothujenn	.... 16, 246	Acetosaccharic	.... 9, 258
<i>Acetum concentratum</i>	.... 8, 284	Acetylchrysophanic	.... 16, 177
<i>Acetum crudum</i>	.... 8, 284	Aconitamic	.... 11, 408
<i>Acetum destillatum</i>	.... 8, 281	Aconitic ..	.... 11, 402
<i>Acetum Lythargyri</i>	.... 8, 314	Acrylic ..	.... 9, 369
<i>Acetum radicale</i>	.... 8, 282	Adipic ..	.... 11, 422
<i>Acetum Saturni</i>	.... 8, 314	Aesciglycollic	.... 18, 13
Acetureide	.... 9, 292	Aesciglyoxalic	.... 18, 43
Acetyl, Benzoyl, and Sulphophenyl,		Aescumic ..	.... 18, 35
Nitride of	.... 12, 159	Aescioxalic	.... 18, 44
Bromide	.... 9, 187; 10, 536	Albuminic	.... 18, 302
Bromide, action of, on		Albumin-sulphuric	.... 18, 289
glycerin	.... 13, 580	Aldehydic	.... 8, 131
Bromide, expansion of, by		Allanturic ?	.... 9, 417
heat ..	.... 1, 227, 229	Allitric ?	.... 9, 417
Chloride	.... 9, 191, 10, 536	Allophanic	.... 9, 266
Chloride, action of, on		Alloxanic	.... 10, 160, 565
anhydrous sulphuric		Allyl-sulphuric	.... 13, 513
acid	.... 13, 455	Allylxanthic	.... 13, 514
Chloride, compound of,		Aloeretic	.... 12, 9
with aldehyde	.... 13, 411	Aloetic ..	.... 12, 1, 10
Chloride, expansion of, by		Aloisic ?	.... 13, 216
heat	.... 1, 227, 229	Alphagalapic	.... 16, 411
Chloride, produced by the		Alpha-oxallic	.... 12, 371
action of chlorine on		Alpha-oxallic ..	.... 12, 371
aldehyde	.... 12, 533	Alphatolonic	.... 17, 151
Chloride, reaction of, with		Althionic	.... 8, 431
sulphocyanide of potas-		Amalic ..	.... 11, 433
sium	.... 10, 521	Amidanisic	.... 13, 113
Iodide	.... 9, 185, 10, 537; 12, 531	Amidobenzoic	.... 13, 112
Perchloride	.... 9, 191	Amidocummic	.... 14, 174
Peroxide	.... 13, 416	Amidoxamic	.... 11, 313
Salicylide	.... 12, 210	Amidopropionic	.... 13, 368
Sulphide	.... 9, 35	Ampelic ..	.... 12, 272
Thiacetate	.... 9, 306	Amygdalic	.... 15, 429
Ureide	.... 16, 26	Amylomalic	.... 11, 79
Ureide	.... 12, 541	Amyloxalic	.... 11, 73
Ureide	.... 12, 175	Amylphloretic	.... 13, 315

Acid, Amylphosphoric ..	11, 49	Acid, Benzænanthyllic, anhy-	
„ Amylphosphorous	11, 48	drous	12, 462
„ Amylsalicylic	12, 260	„ Benzoglycolic	12, 64
„ Amylsulphuric	11, 55	„ Benzoic	12, 32
„ Amylsulphurous ..	11, 50	„ Benzoic, anhydrous	12, 93
„ Amyltartaric	11, 80	„ Benzolactic	12, 92
„ Amylxanthic	11, 60	„ Benzonitrobenzoic, anhy-	
„ Anacardic	17, 519	drous	12, 137
„ Anachuta-tannic	15, 511	„ Benzosulphuric	11, 155
„ Anchoic	13, 374	„ Benzo-valeric, anhydrous	12, 96
„ Anemonic	16, 268	„ Benzoylsalicylamic	12, 324
„ Angelic	10, 410	„ Beta-ossellesic	12, 371
„ „ anhydrous	10, 416	„ Beta-orsellie 12, 371, 377;	16, 295
„ Anilic	12, 306	„ Betuloretic	17, 103
„ Anilocyanic	11, 301	„ Fiacetoquecetic	16, 489
„ Anilotic	12, 306	„ Biamidobenzoic	12, 149
„ Anisamic	13, 142	„ Biamidocummic	14, 176
„ Anisic	13, 123	„ Biamidomeconic	12, 435
„ Anisoic	14, 503	„ Bibromacetic 12, 538;	13, 531
„ Aniso-nitranisic	13, 140	„ Bibromisatic	13, 71
„ Anisuric	13, 241	„ Bibromisatosulphurous	13, 72
„ Anisylous	13, 120	„ Bibromobutyric	10, 136
„ Antrohumic	17, 474	„ Bibromocarbolic	11, 168
„ Anthranilic	12, 326	„ Bibromonaphthylodithionic	14, 33
„ Anthropic	16, 365	„ Bibromophloretic	13, 330
„ Antimonious	4, 330	„ Bibromosalicylic	12, 257
„ Antimonious	4, 329	„ Bibromostearic	17, 116
„ Antitartaric	10, 365	„ Bibromosulphonaphthalic	14, 33
„ Apocrenic 15, 158;	17, 469	„ Bichlorisamic	13, 113
„ Apocrenic (Mulder's)	17, 473	„ Bichlorisatic	13, 79
„ Apogluac	13, 365	„ Bichlorisatosulphurous	13, 81
„ Apophyllic	13, 154	„ Bichlorisatylic	13, 103
„ Arabic	15, 194	„ Bichlorobutyric	10, 110
„ Arachidic	17, 370	„ Bichlorocarbolic	11, 179
„ Araucaric	18, 20	„ Bichlorofiliplosic	15, 31
„ Argentoprussic	8, 28	„ Bichloronaphthylodithionic	14, 45
„ Arsenic	4, 262	„ Bichlorophthalic	13, 17
„ Arsenious	4, 253	„ Bichloropteritannic acid	15, 502
„ Arseniovinic ?	8, 481	„ Bichlorosalicylic	12, 298
„ Arsenomethyllic	13, 496	„ Bichlorosalicylous	12, 297
„ Arvic	17, 474	„ Bichlorosulphonaphthalic	14, 15
„ Aspartic	10, 230	„ Bichloro-sulphosomethyllic	7, 302
„ Atherospermatannic	15, 514	„ Bichlorotannaspic	15, 497
„ Atropic	16, 458	„ Biethyleyanuric	13, 564
„ Aume	6, 207	„ Biethylmeconic	12, 433
„ Axinic	16, 317; 17, 46	„ Biethylphosphoric	8, 401
„ Azelaic	17, 79	„ Biliary, from guano	18, 69
„ Azoleic	12, 451	„ Binethylecitric ?	11, 463
„ Azulmic	11, 375	„ Bimtrobenzoic	12, 134
„ Azulmic (Braconot's)	17, 476	„ Bimtrobenzocarbolic	11, 208
„ Bassic	16, 365	„ Bimtrocarbolic	11, 205
„ Bebiric	17, 173	„ Bimtrocummic	14, 171
„ Benic	17, 558	„ Bimtrodiplhenamic	11, 315
„ Benic (Walter's)	16, 365	„ Bimtro-ethyllic	12, 555
„ Benz-acetic, anhydrous	12, 95	„ Bimtrogentamic	16, 182
„ Benzamic	12, 142	„ Bimtrometholic	12, 494
„ Benzhydrolie	17, 395	„ Bimtiophloretic	13, 331
„ Benzilic	12, 182	„ Bimtrosalicylic	12, 313
„ Benzimic	12, 146	„ Bimtrosulph	14, 87

Acid, Bismuthic	4, 432	Acid, Camphoranilic	14, 483
„ Bisulphanilic	11, 298	„ Camphoric	14, 455
„ Bisulphetholic	12, 516	„ Capric	14, 485
„ Bisulphethosulphuric .. .	8, 411	„ Caproic	11, 414
„ Bisulphobenzolic	11, 156	„ Caprylic	13, 190
„ Bisulpho-hydrokinonic . . .	16, 240	„ Capsulæscic	16, 151
„ Bisulphometholic	12, 484	„ Carbamilic	12, 143, 326
„ Bisulphonaphthalic	14, 21	„ Carbazotic	11, 212
„ Bithiobenzolic	11, 237	„ Carbobenzoic	12, 47
„ Boheic	12, 473	„ Carbohydrokinonic .. .	16, 235
„ Boracic	2, 97	„ Carbohumic acid	17, 476
„ Bromacetic	12, 532	„ Carbohe	11, 139
„ Bromanilamic	11, 238	„ Carbomethyllic	7, 290
„ Bromanilic	11, 171	„ Carbonic	2, 89
„ Bromanisic	13, 132	„ Carbo-ulmic	17, 476
„ Bromanisio-nitranisic . . .	13, 141	„ Carbovinic	8, 394
„ Bromerucic	17, 560	„ Carminic	16, 205
„ Bromexanthic	17, 535	„ Carmufellie	14, 208
„ Biomic	2, 277	„ Catechutannic	15, 515
„ Bromisatic	13, 70	„ Cathartic	18, 241
„ Bromobenzonic	12, 107	„ Ceric	18, 160
„ Bromoboracic	2, 281	„ Ceropic	18, 16
„ Bromocarbolie	11, 168	„ Cerosic	18, 82
„ Bromocinnamic	13, 294	„ Cerotic	18, 134
„ Bromocomenic	11, 392	„ Cerotyl-sulphuric	18, 137
„ Bromoguaiaretic	17, 245	„ Cetic	16, 365
„ Bromoleic	17, 101	„ Cetraic	17, 21
„ Bromomethylselenious .. .	10, 492	„ Cetylene-sulphuric .. .	16, 370
„ Bromonaphthylodithionic, <i>see</i> Acid Bromosulpho-		„ Cetyl-xanthic	16, 371
naphthalic		„ Cevadic	18, 186
„ Bromophenasic	11, 168	„ Chelidonic	12, 413
„ Bromophenesic	11, 168	„ Chenocholic	18, 130
„ Bromophenismic	11, 170	„ Chococic	18, 142
„ Bromoplatinic	6, 292	„ Chloracetamic	9, 272
„ Bromopropionic	9, 428	„ Chloracetic	12, 537
„ Bromopyromeconic	10, 445	„ Chloranilamic	11, 239
„ Bromosalicylic	12, 285	„ Chloranilic	11, 190
„ Bromosacetylous	12, 284	„ Chloranisic	13, 135
„ Bromostannic	5, 84	„ Chloranisio-nitranisic . .	13, 142
„ Bromostannous	5, 84	„ Chlorazosuccic	10, 36
„ Bromostearic	17, 145	„ Chloreyl-hyposulphuric .	2, 340
„ Bromosulphonaphthalic...	14, 33	„ Chloreuxanthic	17, 536
„ Brunolic	15, 163	„ Chloric	2, 312
„ Butylsulphuric	10, 105	„ Chlorindoptenic	11, 181
„ Butyric	10, 77	„ Chlorisamic	13, 112
„ Butyric, anhydrous	10, 88	„ Chlorisatic	13, 75
„ Butyroleic	16, 365	„ Chlorisatosulphurous . .	13, 77
„ Butyrolimnic, <i>see</i> Bog-		„ Chlorisatydic	13, 101
butter.		„ Chlorobenzonic	12, 112
„ Cacodylic	9, 327	„ Chlorocarbethamic	9, 229
„ Caffic	15, 504	„ Chlorocarb-hyposulphuric	2, 340
„ Caffetannic	15, 504	„ Chlorocerotic	18, 139
„ Cainic	18, 143	„ Chlorocinnamic	13, 295
„ Callutannic	15, 514	„ Chlorochromic	4, 135
„ Camphic	14, 353	„ Chlorocromic	11, 390
„ Campholic	14, 453	„ Chlorenanthic	12, 460
„ Camphoramic	14, 481	„ Chlorofillicic	16, 128
		„ Chlorofilipelicic.... .	15, 80
		„ Chloroform-hyposulphuric	2, 340

sid, Chlorohumic	17, 465	Acid, Citric	11, 436
„ Chlorohyposulphonaphthas- lasic, <i>see</i> Acid, Chlorosul- phonaphthalic.		„ Citridic	11, 402
„ Chlorohyposulphonaphthas- lasic, <i>see</i> Acid Bichloro- sulphonaphthalic		„ Citrobianilic	11, 468
„ Chlorohyposulphonaphthas- lic, <i>see</i> Acid, Trichloro- sulphonaphthalic.		„ Cobaltic ?	5, 328
„ Chloroleic	17, 101	„ Cocatannic	15, 518
„ Chloromethylselenious ...	10, 492	„ brown, from the husks of Cocculus grains	14, 477
„ Chloronaphthalic	14, 65	„ Coculostearic	16, 365
„ Chloronaphthisic, <i>see</i> Chlo- ronaphthalic acid		„ Columbic	17, 529
„ Chloroniccic	11, 176	„ Comenamic	11, 393
„ Chloronitrobenzoic	12, 138	„ Comenic	11, 382
„ Chlorophenesic	11, 178	„ Convolvulic	16, 156
„ Chlorophensic	11, 181	„ Convolvulinolic	16, 151
„ Chloroplatinic	6, 294	„ Coparvic	17, 326
„ Chloroplatinous	6, 293	„ Cornic	18, 221
„ Chloropropionic	18, 559	„ Cortepinitannic	15, 489
„ Chlororhodic	18, 416	„ Cotarnamic	16, 134
„ Chlorosahcyllic	12, 296	„ Cotarnic	16, 134
„ Chlorosahcylous	12, 294	„ Coumaric	13, 317
„ Chlorostannic	5, 88	„ Cremic	15, 158; 17, 466
„ Chlorastannous	5, 84	„ Cremic (Mulder's)	17, 473
„ Chlorostearic	17, 146	„ Croconic	10, 388
„ Chlorosuccinic	9, 273	„ Cumnamic, <i>see</i> Acid Amidocuminic	
„ Chlorosulphobenzoic	12, 117	„ Cumnic	14, 148
„ Chlorosulphobenzolic	11, 175	„ Cummaric	14, 160
„ Chlorosulphonaphthalic	14, 38	„ Cupric ?	5, 413
„ Chloro-sulphosomethylic	7, 301	„ Curic	18, 19
„ Chlorous	2, 305	„ Curuvic	18, 20
„ Chloroxalovinic	9, 245	„ Cyameluric	9, 332
„ Chloroxynaphthalesic, <i>see</i> Acid, Perchloronaphthalic.		„ Cyanic	8, 61
„ Chlorosuccic	9, 429	„ „ with bitter almond oil	12, 28
„ Chloroxynaphthalic, <i>see</i> Acid, Chloronaphthalic.		„ Cyanuric	9, 449
„ Cholesteric	13, 157	„ Cyanlic	9, 461
„ Cholic	18, 46	„ Damaluric	12, 436
„ Choloidanic	16, 412	„ Dialuric	10, 155
„ Choloïdic	18, 52	„ Digitalic	16, 339
„ Chromic	4, 116	„ Digitalmic	16, 339
„ Chrysammic	12, 1	„ Digitaloic	14, 529
„ Chrysanic	12, 329	„ Dihuric	10, 181
„ Chrysanic	12, 302	„ Dinitrobenzoic	12, 134
„ Chrysatrie	12, 12	„ Dinitro-ethylc	12, 555
„ Chrysophanic	16, 171; 13, 241	„ Dinitro-methylc	12, 494
„ Cimicic	16, 284	„ Dinitrophenyl-citraconamic	11, 325
„ Cinchonine-sulphuric	16, 232	„ Disulphometholic	12, 484
„ Cinchonatannic	15, 479	„ Dithobenzolic	11, 237
„ Cinnamic	13, 268	„ Dithionaphthylc, <i>see</i> Acid sulphonaphthalic.	
„ Cissotannic	15, 516	„ Dithonic	2, 174
„ Citracobimitranilic	11, 325	„ Doeglic	17, 179
„ Citraconanilic	11, 323	„ Draeic	13, 123
„ Citracomic	10, 417	„ Draconic	13, 123
„ Citranilic	11, 465	„ Dulcitararic	15, 388
		„ Elaidic	17, 74
		„ Elateric	17, 367
		„ Ellagic	16, 183
		„ Epiglycerobitararic	13, 582
		„ Erucadic	17, 552

Acid, Erucic	17, 549	Acid, Gallic	12, 396
„ Erythric	12, 381	„ Gallotannic	15, 449
„ Erythroleic	12, 359	„ Gambodie	17, 416
„ Etheric	8, 180	„ Gardenatannic	15, 520
„ Ethionic	8, 432	„ Gentianic	16, 178
„ Ethylbromosalicylic	12, 290	„ Geoceric 17, 445;	18, 141
„ Ethylbichlorosalicylic	12, 299	„ Georetic	17, 444
„ Ethylbinitrophoretic	13, 333	„ Ginkgoic	18, 82
„ Ethylbinitrosalicylic	12, 319	„ Glaucomelanic	15, 14
„ Ethylbromosalicylic	12, 286	„ Globularitannic	16, 83
„ Ethylcamphoric	14, 465	„ Glucic	13, 237
„ Ethylcarbohydrokinonic	16, 240	„ Glucohexacitric	15, 334
„ Ethylcomenic	11, 389	„ Glucosuccinic	15, 333
„ Ethylhemipinic	14, 434	„ Glucotetartartaric	15, 333
„ Ethylmeconic	12, 431	„ Glutamic	18, 437
„ Ethylmucic	11, 511	„ Glyceric	13, 568
„ Ethylnitrosalicylic	12, 312	„ Glycerobitartaric	13, 582
„ Ethyloxamic	9, 262	„ Glycerocitric	13, 583
„ Ethylphoretic	13, 314	„ Glyceromonotartaric	13, 581
„ Ethylphosphoric 8, 399;	13, 456	„ Glycerosuccinic	13, 581
„ Ethylphosphorous	8, 397	„ Glycerotartaric	13, 582
„ Ethylpteritannic	15, 503	„ Glycoxalic	13, 581
„ Ethylsalicylamic	12, 323	„ Glycocholic	18, 56
„ Ethylsalicylic	12, 259	„ Glycocholic	18, 62
„ Ethylsulphobenzonic	12, 63	„ Glycolic 12, 508;	13, 535
„ Ethylsulphuric	8, 415	„ Glyoxylic 12, 505;	13, 434
„ Ethylsulphurous	8, 408	„ Graphitic	14, 517
„ Ethyltaunaspic	15, 499	„ Gratiolonic	16, 471
„ Ethyltrituonic	12, 513	„ Guaiacic 11, 397;	17, 252
„ Euchroic	10, 18	„ Guaiacomic	17, 155
„ Eugenic	14, 201	„ Guaiaretic	17, 241
„ Euphrasatannic... . . .	15, 518	„ Gurgunic	17, 545
„ Euxanthic 15, 343;	17, 530	„ Gyrophoric	16, 295
„ Evermic	16, 443	„ Hedenic	15, 527
„ Everminic	16, 445	„ Hedentannic	15, 527
„ Evernitic	16, 547	„ Helanthic, or Helantho-	
„ of Faraday's smouldering		„ tannic	15, 345, 522
„ baryta-salt	14, 20	„ Hemipinic	14, 430
„ Fatty, $C^{18}H^{36}O^4$	17, 181	„ „ acid produced	
„ Ferric P	5, 201	„ „ by decomposi-	
„ Ferriprussic	7, 449	„ „ tion of	14, 432
„ Ferroprussic	7, 429	„ Hippuric	12, 69
„ Filicic	16, 126	„ Hircic	10, 89
„ Filimelisisulphuric	15, 26	„ Hordeic	15, 49
„ Filnoleic	18, 74	„ Humic	17, 458, 478
„ Filipelolic	15, 25	„ Humin-nitric	17, 461
„ Flavindic	13, 91	„ Humocrenic	17, 466, 475
„ Fluoboric	2, 363	„ Humopic	16, 145
„ Formic	7, 268	„ Hyamic	18, 106
„ Formobenzonic	12, 57	„ Hydantonic?	10, 250
„ Fulminic	9, 295; 12, 551	„ Hydrabietic	18, 8
„ Fulminuric	10, 556	„ Hydriodic	2, 261
„ Fumaric	10, 22	„ Hydriodous	2, 261
„ Fumic	17, 476	„ Hydrobromic	2, 279
„ Fungic	10, 227	„ Hydrobromous	2, 279
„ Gaedmic	16, 319	„ Hydrochloric	2, 319
„ Galitanmic	15, 519	„ Hydrochloric, solubility of	
„ Gallactic... . . .	15, 229	„ silver chloride in	6, 428
„ Gallamic... . . .	12, 435	„ Hydrochlorosaccharic	9, 252

Acid, Hydrochromocyanic ...	7, 420	Acid, Iodacetic ...	13, 529
" Hydrocobaltidecyanic ...	7, 492	" Iodic ...	2, 253
" Hydrocyanic ...	7, 378, 389	" Iodocinnamic ...	13, 293
" Hydrocyanic, with bitter almond oil ...	12, 28	" Iodomethylselesmious ...	10, 492
" Hydroferricyanic ...	7, 449	" Iodoplatmic ...	6, 291
" Hydroferrocyanic ...	7, 429; 9, 506	" Iodoplatinous ...	6, 290
" Hydrofluoboric ...	2, 364	" Iodopyromeconic ...	10, 443
" Hydrofluosilicic ...	3, 366	" Iodosaleylous ...	12, 263
" Hydroindocyanic ...	8, 60	" Iodostannic ...	5, 83
" Hydroleic ...	17, 89	" Iodostannous ...	5, 82
" Hydromargaric ...	17, 89	" Iodous ? ...	2, 252
" Hydromargaritic acid ...	17, 88	" Ipecacuanhic ...	15, 523
" Hydromellonic ...	9, 386; 10, 545	" Ipomæic ...	14, 493
" Hydropersulphocyanic ...	8, 103	" Isamic ...	13, 109
" Hydropiperic ...	15, 11	" Isatic ...	13, 54
" Hydroplatinocyanic ? ...	8, 44	" Isatinamic ...	13, 109
" Hydroselenic ...	2, 241	" Isatosulphurous ...	13, 56
" Hydroselenocyanic ...	8, 122	" Isethionic ...	8, 428; 10, 518
" Hydrosulphocyanic ...	8, 70	" Isobiglycolethylenic ...	15, 232
" Hydrosulphomellonic ...	9, 472; 10, 548	" Isocetic ...	16, 365
" Hydrosulphocarbonic ...	2, 206	" Isotartaric ...	10, 330
" Hydrosulphuric ...	2, 195	" Itaconanilic ...	11, 324
" Hydrosulphurous ...	2, 193	" Itaconic ...	10, 421
" Hydrotelluric ...	4, 404	" Jalapic ...	16, 408
" Hydrothiocyanic ...	8, 113	" Jalapinic ...	16, 400
" Hydrothio-sulphopurussic ...	8, 98	" Japonic ...	12, 394
" Hydroxalic ...	11, 513	" Kalsaccharic ...	13, 237
" Hydruic ...	10, 158	" Kinic ...	16, 222
" Hyocholic ...	18, 100	" Kmotannic ...	15, 525
" Hyoglycocholic ...	18, 101	" Kinovatannic ...	15, 316
" Hyperspiroylic ...	12, 246	" Kinovic ...	15, 345; 18, 21
" Hypoacetylous ...	8, 499; 9, 43	" Kinovous ...	15, 32
" Hypobenzoylous ...	12, 48	" Lactamic ...	11, 471
" Hypobromous ? ...	2, 276	" Lactic ...	11, 472
" Hypochloric ...	2, 309	" Lactic, anhydrous ...	11, 435, 501
" Hypochlorous ...	2, 294	" Lactucic ...	16, 278
" Hypogæic ...	16, 317	" Lævo-camphoric ...	14, 463
" Hyponitric ...	2, 380	" Lævoracemic ...	10, 365
" Hypophosphorous ...	2, 113	" Lævotartaric ...	10, 365
" Hypopicrotoxic ...	14, 477	" Lampic ...	8, 180
" Hyposulpharsenious ...	4, 271	" Lantanuric ? ...	9, 445
" Hyposulphindigotic ...	13, 45	" Lauric ...	15, 43
" Hyposulphoglutic ...	14, 23	" Laurostearic, <i>see</i> Acid, Lauric.	
" Hyposulphonaphthalic, <i>see</i> Acids, Sulphonaphthalic and Bisulphonaphthalic.		" Lecanoric ...	12, 377
" Hyposulphophosphoric ...	2, 212	" Ledtannic ...	15, 527
" Hyposulphophosphorous ...	2, 209	" Lepargylic ...	13, 374
" Hyposulphuric ...	2, 174	" Leucic ...	15, 53, 536
" Hyposulphurous ...	2, 160	" Leucoturic ...	9, 444
" Igasuric ...	10, 229	" Lichenic ...	16, 195
" Illic ...	16, 511	" Lignosulphuric ...	15, 164
" Imasatic ...	13, 109	" Lignohumic ...	17, 474
" Indigotic ...	12, 306	" Limettic ...	14, 519
" Inosinic ...	11, 119	" Linoleic ...	16, 305
" Insolmic ...	13, 318	" Lipic ...	10, 434
		" Lithic ...	10, 456
		" Lathofellic ...	17, 375
		" Lizaric, <i>see</i> Alizarin.	

Acid, Madic	16, 366	Acid, Methylselenious	10, 491
„ Malamylic	11, 79	„ Methylternitrosalicylic	12, 319
„ Malanilic	11, 320	„ Methyltetrasulphuric	10, 497; 12, 484
„ Maleic	8, 151	„ Metoleic	17, 88
„ Malic	10, 203	„ Molybdic	4, 55
„ Malomethylic	10, 227	„ Molybdic, with Fluxes, be- haviour of	4, 73
„ Malonic	13, 560	„ Molybdic, sulphates of	4, 62
„ Malovinic	10, 227	„ Monochloroacetic 9, 192; 12, 537	
„ Mandelic	12, 57	„ Monomethylcitric	11, 463
„ Manganic	4, 203	„ Moringic	17, 74
„ Mannitartaric	15, 377	„ Morntannic	15, 473
„ Mannitic	15, 382	„ Mucic	11, 502
„ Mannito-bisulphuric	15, 371	„ C ¹² H ¹ Cl ² O ⁸ , formed by the action of PCl ⁵ on mucic acid	11, 523
„ Mannito-tersulphuric	15, 371	„ Mycomelic	10, 182
„ Marganic	16, 472	„ Myristic	16, 209
„ Margarosulphuric	17, 88	„ Myronic 10, 50; 15, 346, 418	
„ Mechloic	14, 425	„ Nanceic	11, 172
„ Meconamidic	12, 434	„ Naphthalocyanic	14, 118
„ Meconic	12, 421	„ Naphthalasulphocyanic	14, 119
„ Meconic, crystallised	12, 426	„ Naphthesic	14, 27
„ Meconin-hyponitric	14, 413	„ Naphthionic	14, 110
„ Medullic	17, 540	„ from Naphthylamine	13, 352
„ Melampyrosulphuric	15, 392	„ Narcotinic	16, 148
„ Melanic	11, 163	„ Nartheic	18, 236
„ Melanuric	10, 548	„ Nicotic	10, 229
„ Melissic	18, 152	„ Niobic	4, 16
„ Melissa-sulphuric	18, 152	„ Nitranilic	12, 306
„ Mellitic	10, 1	„ Nitranilic	13, 187
„ Mesaconic	10, 427	„ Nitric	2, 386
„ Mesityl-hypophosphorous	9, 28	„ Nitrobenzoic	12, 122
„ Mesityl-phosphoric	9, 29	„ Nitrobenzoic, anhydrous	12, 137
„ Mesitylsulphuric	9, 29; 12, 518; 13, 311	„ Nitrobichlorocarboic	11, 210
„ Mesoxalic	9, 425	„ Nitrobromopheniac	11, 208
„ Metacetic, or Metacetonic	9, 102	„ Nitrocapric	14, 500
„ Metagallic	15, 458	„ Nitrocaprylic	13, 217
„ Metagummic	15, 205	„ Nitrocarboic	11, 203
„ Metagnohumic	17, 474	„ Nitrochloroniceic	11, 204
„ Metamargaric	17, 88	„ Nitrocholic ?	9, 503
„ Metapectic	15, 411	„ Nitrocinnamic	13, 300
„ Metaphosphoric	2, 125	„ Nitrococussic	13, 25
„ Metatartaric	10, 327	„ Nitrocummic	14, 170
„ Methionic 8, 435; 12, 484		„ Nitrodacrylic	13, 23
„ Methylbromosalicylic	12, 289	„ Nitro-euxanthic	17, 537
„ Methylbichlorosalicylic	12, 299	„ Nitrofrangulic	16, 79
„ Methylbinitrosalicylic	12, 317	„ Nitrohippuric	12, 129
„ Methylbithionic	12, 488	„ Nitrohydrilic	10, 159
„ Methylbromosalicylic	12, 286	„ Nitroleucic	11, 431
„ Methylcamphoric	14, 463	„ Nitromaric	17, 325
„ Methylchlorosalicylic	12, 297	„ Nitromuriatic	2, 476
„ Methylidithionic, <i>see</i> Acid, Methylbithionic.		„ Nitronaphthylidithionic, <i>see</i> Acid, Nitrosulphonaphthalic.	
„ Methylhyposulphuric	2, 341	„ Nitrophenesic	11, 205
„ Methylnitrosalicylic	12, 311	„ Nitrophenisic	11, 212
„ Methyloxamic	9, 261	„ Nitrophenylpyrotartramic	11, 329
„ Methylphosphoric	12, 482		
„ Methylphosphorous	12, 481		
„ Methylsalicylic	12, 255		

Acid, Nitrophthalic	13, 27	Acid, Parapectic .	15, 810
„ Nitropicric .	11, 212	Paratartratic .	10, 346
„ Nitropropionic .	9, 430	Paratartralic .	10, 361
„ Nitroprussic .	8, 129	Parellic ..	16, 298
„ Nitrosaccharic	9, 253	Pectic ..	15, 401
„ Nitrosalicylamic .	12, 333	Pectolactic .	15, 231
„ Nitrosalicylic .	12, 305	Pectosic .	15, 400
„ Nitrosalicylic, hydrated	12, 308	Pelargonic .	13, 369
„ Nitrosalicylous .	12, 304	Pelopic .	4, 20
„ Nitrosopelargonic ..	13, 371	Pentathionic ..	2, 162
„ Nitrostilbic .	12, 173	Perauric .	6, 209
„ Nitrosulphonaphthalic	14, 84	Perchloric .	2, 316
„ Nitrosulphoxyloic .	13, 137	Perchloronaphthalic	14, 69
„ Nitrosulphuric .	2, 441	Perchloroxynaphthalic, <i>see</i>	
„ Nitrotartaric .	10, 345	Acid Perchloronaphthalic.	
„ Nitrotoluylic .	13, 22	Perchromic ..	6, 120
„ Nitroveratric .	13, 356	Periodic .	2, 259
„ Nitrous .	2, 380	Permanganic ..	4, 209
„ Nitroxy benzoic .	12, 313	Permesitylo-sulphuric	9, 30
„ Onanthic .	12, 454	Persulphomolybdic .	4, 61
„ Onanthylic .	12, 451	Peruric ..	10, 484
„ Onanthylic, anhydrous	12, 462	Pervanadic ?	4, 89
„ Oleic .	17, 62	Phenic .	11, 139
„ Oleophosphoric .	16, 483	Phenous .	11, 139
„ Oleosulphuric .	17, 88	Phenyl-carbamic .	12, 326
„ Ombellie .	13, 123	Phenyl-citraconamic .	11, 323
„ Opianic .	14, 427	Phenyl-citramic ..	11, 465
„ Opian sulphurous .	14, 426	Phenyl-citrobamic .	11, 468
„ Orsellie .	12, 371	Phenyl-disulphamic .	11, 298
„ Osmiamic .	6, 413	Phenyl-disulphodiamic	11, 237
„ Osmic .	6, 407	Phenyl-itaconamic	11, 324, 408
„ Ovalic .	13, 514	Phenyl-sulphamic .	11, 296
„ Oxalosaccharic .	9, 259	Phenyl-phthalamic ..	13, 31
„ Oxalovinic ..	9, 183	Phenyl-pyrotartaric	11, 328
„ Oxaluric .	9, 440	Phloretamic ..	13, 335
„ Oxamic ..	9, 259; 13, 535	Phloretic .	13, 307
„ Oxamylic ..	11, 73	Phocenic .	11, 21
„ Oxanilic .	11, 310	Phosphacetic .	9, 6
„ Oxatolylic .	17, 153	Phosphoglyceric ..	9, 492
„ Oxuric .	10, 169	Phosphoric .	2, 121
„ Oxybenzoic .	12, 273	Phosphorous .	2, 115
„ Oxychlorocitric .	11, 470	Phosphovinic ..	8, 399
„ Oxycuminic ..	14, 151	Phthalamie ..	13, 30
„ Oxyphenic ..	11, 379	Phthalic .	13, 10
„ Oxypicric ..	11, 22	Phycic ..	13, 238
„ Oxypuntanic .	15, 487	Phytoteleic .	16, 317
„ Oxyporphyrin .	17, 184	Pichuric, <i>see</i> Acid, Lauric.	
„ Oxysalicylic ..	16, 239	Pieramic .	11, 243
„ Oxyxanthic ...	8, 461	Picric ..	11, 211
„ Palmic .	16, 366	Pimaric ...	17, 323
„ Palmitic .	16, 350	Pimelic .	12, 463
„ Palmitonic .	16, 366	Pinic ...	18, 9
„ Papaveric .	16, 128	Pimecortannic .	15, 491
„ Parabanic .	9, 442	Pinitannic ...	15, 488
„ Paracamphoric .	14, 463	Pinitartaric .	15, 214
„ Paracomenic ...	11, 410	Pinonic ..	18, 20
„ Paraglycocholic	18, 61	Piperic	15, 7
„ Paramidic	10, 20	Pipitzaholic	16, 264
„ Paramucic ...	11, 512	Pityxylonie	15, 493

Acid, Polychromatic 11, 1	Acid, Rheadic 16, 527
„ Polygalic, <i>see</i> Senegin.	„ Rhodizonic 10, 398
„ Porphyric . . . 17, 188	„ Rhodotannic . . . 15, 530
„ Propaeicmic . . . 18, 38	„ Rhustannic . . . 15, 531
„ Propionic	„ Racinelaidic . . . 17, 135
9, 402; 10, 552; 13, 558	„ Ricinoleic . . . 17, 131
„ Propyloxanthic . . . 9, 399	„ Roccellic . . . 16, 474
„ Proteinchlorous 18, 265	„ Rosacic 10, 200
„ Protein-sulphuric . . . 18, 257	„ Rosolic . . . 11, 153
„ Protic . . . 18, 335	„ Ruberythric . . . 16, 42
„ Protocatechuic . . . 16, 238	„ Rubiacic . . . 16, 50
„ Pseudoacetic . . . 9, 414	„ Rubianic 15, 348; 16, 38
„ Pteritannic . . . 15, 500	„ Rubic . . . 12, 394
„ Purpuric . . . 10, 191	„ Rubichloric . . . 16, 66
„ Pyrocitic . . . 10, 417	„ Rubindenic . . . 13, 109
„ Pyrogallic . . . 11, 398	„ Rufigallic . . . 12, 412
„ Pyroguacacic 12, 350, 17, 252	„ Rufimoric . . . 15, 476
„ Pyroleic, <i>see</i> Acid, Sebacic.	„ Rubitannic . . . 15, 532
„ Pyroligneous 7, 258; 15, 149	„ Ruthenic . . . 6, 399
„ Pyrolivnic . . . 14, 206	„ Rutic, <i>see</i> Rutin
„ Pyromaric . . . 17, 325	„ Sabadillic . . . 18, 186
„ Pyromecomic . . . 10, 438	„ Saccharic . . . 11, 513
„ Pyromellitic . . . 10, 14	„ Saccharohumic . . . 17, 474
„ Pyromorittannic . . . 11, 379	„ St. Evre's, prepared from
„ Pyromucic . . . 10, 383	chloromucic acid 10, 404
„ Pyrophosphoric . . . 2, 126	„ Salicylamic 12, 320
„ Pyroracemic 9, 424	„ Salicylic . . . 12, 216
„ Pyroricmic . . . 17, 142	„ Salicylic, anhydrous . . . 12, 282
„ Pyrotartanic . . . 11, 328	„ Salicylous . . . 12, 235
„ Pyrotartaric . . . 11, 83	„ Salicylous, with alkaline
„ Pyrotartaric, anhydrous 11, 101	bisulphites . . . 12, 241
„ Pyrotartaronitrilic . . . 11, 328	„ Salicyluric . . . 12, 331
„ Pyrotartarilic . . . 11, 328	„ Santalic . . . 16, 259
„ Pyrotartaronitrilic . . . 11, 329	„ Sarcolactic . . . 11, 498
„ Pyroterebithic . . . 11, 422	„ Sebacic 14, 493
„ Pyruvic 9, 418	„ Sebamic . . . 14, 501
„ Quadrichlorobutyric 10, 141	„ Selenic . . . 2, 239
„ Quadrichloronaphthylodithionic, <i>see</i> Acid, Quadrichlorosulphonaphthalic.	„ Selenious . . . 2, 236
„ Quadrichlorosuccinic . . . 10, 142	„ Sinapic 14, 520
„ Quadrichlorosulphonaphthalic . . . 14, 62	„ Sinapolic . . . 17, 552
„ Quadrichlorotannaspidic. 15, 499	„ Solanic } <i>see</i> Potato-
„ Quadrichlorovalerianic 11, 103	„ Solanostearic } fat.
„ Quercetic . . . 16, 488	„ Spiroylic . . . 12, 246
„ Quercitartaric 15, 216	„ Stannic . . . 5, 71
„ Quercitric 16, 496	„ Stannic: anomalous hy-
„ Quinine-sulphuric . . . 17, 307	drate of . . . 5, 73
„ Quinovatannic . . . 15, 484	„ Stannic: ordinary hy-
„ Quintichlorocarbollic . . . 11, 184	drate of . . . 5, 74
„ Racemic . . . 10, 346	„ Stearic . . . 17, 103
„ Racemic, anhydrous . . . 10, 361	„ Stearidic . . . 17, 78
„ Racemomethyllic . . . 10, 362	„ Stearophanic . . . 16, 366
„ Racemovinic 10, 363	„ Stilbesic . . . 12, 181
„ Ratanhiatannic . . . 15, 529	„ Stilbic . . . 12, 182
„ Retene-bisulphuric . . . 17, 12	„ Stilbous . . . 12, 178
„ Rhamnotannic . . . 15, 530	„ Stillistearic . . . 16, 366
	„ Styphnic . . . 11, 228
	„ Suberamic . . . 13, 221
	„ Suberanicilic 18, 222
	„ Suberic 18, 204

acid, Succinanic	... 11, 317	Acid, Sulphuric	... 13, 68
" Succinic	... 10, 108	" Sulphosaccharic	9, 252; 15, 530
" Succinic, anhydrous	... 10, 185	" Sulphosalicylic	... 12, 275
" Sulphacetic	... 8, 436	" Sulphosinapic	... 10, 33
" Sulphacetothymic	14, 420	" Sulphosomethylic	7, 295
" Sulphacetyllic	... 8, 412	" Sulphosomethylic, terchlorinated	... 7, 351
" Sulphallylic	... 13, 543	" Sulphostannic	... 5, 80
" Sulphamidonic	... 15, 104	" Sulphostannous	... 5, 78
" Sulphamylic	... 11, 55	" Sulphosuccinic	... 10, 129
" Sulphamic	11, 296	" Sulphotelluric	... 4, 406
" Sulphanisic	13, 128, 536	" Sulphotellurous	... 4, 405
" Sulphantimonie	... 4, 351	" Sulphoterebic	14, 277
" Sulphantimonious, amorphous	... 4, 310	" Sulphothymic	14, 419
" Sulphantimonious, crystallised	... 4, 337	" Sulphotoluic	12, 230
" Sulpharsenic	... 4, 277	" Sulphotungstic	... 4, 33
" Sulpharsenous	... 4, 273	" Sulphotungstous	... 4, 32
" Sulphetheric	... 10, 518	" Sulphovinic	... 8, 415
" Sulphethersulphuric	... 8, 435	" Sulphovinic, formation of from alcohol	... 8, 222
" Sulphindigotic	... 13, 58	" Sulphovinic, constitution of	... 10, 515
" Sulphisatanous	13, 105	" Sulphovindic	13, 66
" Sulphobenzoenic	12, 230	" Sulphoxanthic	8, 466
" Sulphobenzoic	... 12, 53	" Sulphoxyarsenic	4, 280
" Sulphobenzolic	... 11, 155	" Sulphoxylolic	13, 117
" Sulphobenzovinic	12, 63	" Sulphoxyphosphoric	... 2, 220
" Sulphobutylic	... 10, 105	" Sulphuric	... 2, 175
" Sulphocamphoric	... 13, 379	" " ethylated	13, 414
" Sulphocaprylic	... 13, 196	" Sulphurous	... 2, 168
" Sulphocarbomethylic	... 7, 298	" Sulphydic	... 2, 195
" Sulphocinnamic	... 13, 278	" Sylvic	... 17, 318
" Sulphocumolic	... 13, 344	" Sylvinolic	... 18, 1
" Sulphocymenic or Sulphocymolic	... 14, 188	" Taigutic	16, 521
" Sulphodracylic	... 12, 230	" Tannaspidic	... 15, 496
" Sulphoflavic	... 13, 68	" Tannecortepinic	... 15, 492
" Sulphofulvic	... 13, 68	" Tannic	... 15, 449
" Sulphoglyceric	... 9, 491	" Tannic, from fruits	... 15, 519
" Sulphoglycolic	... 13, 428	" Tanningenic	... 12, 388
" Sulphomesitylo-sulphuric	9, 30	" Tannomelanin	... 12, 412
" Sulphometanethic	... 14, 200	" Tannopic	... 15, 491
" Sulphomethylic	... 7, 305	" Tannoxylic	... 12, 437
" Sulphonaphthalic	14, 13	" Tantalac	... 4, 2
" Sulphonaphthalidamic, <i>see</i> Acid, Sulphonaphthylamic.		" " Borate of	... 4, 4
" Sulphonaphthoric, <i>see</i> Acid, Sulphonaphthalic.		" " Hydrochlorate of	... 4, 6
" Sulphonaphthylamic	... 14, 109	" " Hydrofluante of	... 4, 8
" Sulphophenic	... 11, 157	" " Phosphate of	... 4, 4
" Sulphophenylbenzoic	... 12, 158	" " Sulphate of	... 4, 5
" Sulphophenyllic	... 11, 155	" Tantalous	... 4, 2
" Sulphophloretic	... 13, 313	" " containing Tungsten	... 4, 45
" Sulphophoenicic	... 13, 95	" Tartaric	... 10, 265
" Sulphophosphoric	... 2, 217	" " Anhydrous	... 10, 337
" Sulphophosphorous	... 2, 215	" " Inactive	... 10, 369
" Sulphophosphovinic	... 8, 466	" Tartaric	... 10, 333
" Sulphopianic	14, 432	" Tartramyllic	... 11, 80
" Sulphopropylic	... 9, 399	" Tartrelic	... 10, 333
" Sulphopurpuric	... 13, 67	" Tartromethylic	... 10, 338

Acid, Tartronic . . .	10, 345	Acid, Turpetholic . . .	17, 455
„ Tartrovinic . . .	10, 340	„ Tyrosine-sulphuric . . .	13, 362
„ Taurochenocholic . . .	18, 181	„ Umic . . .	15, 158
„ Taurocholic . . .	18, 63	„ Umic (Boullay's) . . .	17, 462
„ Taurylic . . .	11, 154	„ Umic (Mulder's) . . .	17, 472
„ Telluric . . .	4, 400	„ Umic (Pelgot's) . . .	17, 466
„ „ Hydrochlorate of . . .	4, 413	„ Uramilic . . .	10, 190
„ Tellurous . . .	4, 397	„ Ureo-carbonic . . .	7, 377
„ Terbromocarbolic . . .	11, 170	„ Uioerythric . . .	18, 408
„ Terbromosalicylic . . .	12, 291	„ Uric . . .	10, 455
„ Terchloracetic . . .	9, 209	„ Uroxanic . . .	10, 478
„ Terchloracarbolic . . .	11, 181	„ Usnic . . .	17, 48
„ Terchlorofillic . . .	16, 129	„ Uvic . . .	10, 346
„ obtained from bihydro-		„ Vaccinic . . .	11, 421
chlorate of terchloro-		„ Valerianic . . .	11, 21
naphthalin by the action		„ „ anhydrous . . .	11, 37
of nitric acid . . .	14, 67	„ Valeric . . .	11, 21
„ Terchlorophthalic . . .	13, 17	„ Valerotannic . . .	15, 533
„ Terchloropteritannic . . .	15, 502	„ Vanadic . . .	4, 86
„ Terchlorosulphonaphthalic . . .	11, 54	„ „ Behaviour of with	
„ Terchlorotannaspodic . . .	15, 498	fluxes . . .	4, 100
„ Terchlorovalerianic . . .	11, 103	„ „ Phosphate of . . .	4, 90
„ Terebentic . . .	14, 255	„ Veratric . . .	13, 354
„ Terebentic . . .	13, 118	„ Vinomellitic? . . .	10, 13
„ Terebenzic . . .	16, 183	„ Vulpic . . .	17, 149
„ Terebic . . .	12, 467	„ Xanthamylc . . .	11, 60
„ Terebolic . . .	12, 467	„ Xanthic . . .	8, 448
„ Terechrysic . . .	11, 424	„ Xanthomethylc . . .	7, 293
„ Terephthalic . . .	13, 13	„ Xanthopinic . . .	14, 436
„ Ternitramic . . .	13, 143	„ Xanthoproteic . . .	18, 264
„ Ternitrocarbolic . . .	11, 211	„ Xanthotannic . . .	15, 533
„ Ternitrocresylic . . .	11, 228	„ Xylochloric . . .	15, 534
„ Ternitrogentamic . . .	16, 182	„ Zumic . . .	11, 472
„ Tetrathionic . . .	2, 164	Acid-albumin, Eichwald's . . .	18, 343
„ Thacetic . . .	9, 355; 13, 446	„ Panum's . . .	18, 261
„ „ anhydrous . . .	9, 356	Acidifying Principle, <i>see</i> Oxygen.	
„ Thioformic . . .	12, 479	Acids, action of Phosphorus Ter-	
„ Thiomelanic . . .	8, 240	chloride on . . .	10, 487
„ Thionaphthamic . . .	14, 115	„ and bases, heat developed	
„ Thionuric . . .	10, 183	in the combination of . . .	1, 296
„ Thiotolamic . . .	12, 313	„ development of electricity	
„ Thujetic . . .	16, 214	by combination of, with	
„ Thymolic . . .	15, 37	one another . . .	1, 330
„ Titanic . . .	3, 471	„ development of electricity	
„ „ Hydrate of . . .	3, 475	by combination of, with	
„ Toluolsulphuric . . .	12, 230	bases . . .	1, 331
„ Toluylic . . .	13, 8	„ development of electricity	
„ Torfic . . .	17, 474	by combination of, with	
„ Torfocrenic . . .	17, 475	water . . .	1, 320
„ Torfoxyerenic . . .	17, 475	„ Amdated . . .	7, 197
„ Trichloronaphthylodithionic,		„ Animal . . .	7, 197
<i>see</i> Acid Terchlorosulpho-		„ combination of, with water . . .	2, 63
naphthalic . . .		„ Copulated or Conjugated . . .	7, 206
„ Trigenic . . .	9, 311	„ Fatty . . .	7, 229
„ Trithionic . . .	2, 166	„ „ natural occurrence of . . .	13, 387
„ Tungstic . . .	4, 26	„ „ separation of . . .	15, 210
„ Tungstic, behaviour of with		„ Organic . . .	7, 196
fluxes . . .	4, 42	„ „ action of ammonia	
„ Turpethic . . .	17, 454	on . . .	7, 141

Acids, Organic, Anhydrides of . . .	7, 193	Acrylic acid . . .	9, 369
" " basicity of . . .	7, 197	Acrylic Ether . . .	9, 372
" " bibasic . . .	7, 203—205	Acryl-resins . . .	9, 368
" " compounds of Urea . . .	13, 405	Actynolite . . .	3, 405
" " with . . .	13, 405	Adansonm . . .	18, 213
" " copulated . . .	7, 221—226	Adhesion . . .	1, 20—30
" " destructive distil- . . .	7, 81	" between elastic fluids . . .	1, 20—26
" " lation of . . .	7, 81	" between elastic fluids . . .	1, 26
" " hypothetically an- . . .	7, 13	" and solids . . .	1, 27
" " hydrous . . .	7, 13	" between liquids . . .	1, 27
" " mixture of, with . . .	7, 168	" between liquids and . . .	1, 27—30
" " volatile oils and . . .	7, 168	" solids . . .	1, 30
" " camphor . . .	7, 202, 204	" between solids . . .	1, 30
" " monobasic . . .	7, 202, 204	" phenomena, develop- . . .	ment of heat accom-
" " reactions of with . . .	7, 209	" panying . . .	1, 300
" " metallic oxides . . .	7, 209	Adhesive attraction . . .	1, 20
" " salts of . . .	7, 207	Adipate of Ethyl . . .	11, 424
" " solubility of in . . .	8, 274	Adipates, metallic . . .	11, 423
" " alcohol . . .	8, 274	Adipic acid . . .	11, 422
" " tribasic . . .	7, 204—205	Adipocere . . .	16, 390
" Polybasic, Glycerides of . . .	13, 580	Adularia . . .	3, 442
" Polythionic . . .	2, 168	Aegyrne . . .	5, 280
" Solid fatty, separation of . . .	15, 46	Aerated vegetable alkali . . .	3, 14
" Vegetable . . .	7, 196	Aeschynite . . .	3, 478
<i>Acidum aceti crystallisatum</i> . . .	8, 282	Aescigenin . . .	18, 37
" <i>boracis</i> . . .	2, 97	Aesciglycol . . .	18, 43
" <i>borussicum</i> . . .	7, 389	Aesciglycolal . . .	18, 43
" <i>muraticum</i> . . .	2, 319	Aesciglycollic acid . . .	18, 43
" " <i>oxigenatum</i> . . .	2, 289	Aesciglyoxal . . .	18, 43
" <i>salis</i> . . .	2, 319	Aesciglyoxalic acid . . .	18, 43
" <i>spirosum</i> . . .	12, 235	Aescimic acid . . .	18, 35
" <i>sulfuricum</i> . . .	2, 175	Aescioxalic acid . . .	18, 44
" <i>sulfurosum</i> . . .	2, 168	Aescorcin . . .	18, 45
" <i>uvicum</i> . . .	10, 346	Aescorem . . .	18, 45
" <i>vitrioli phlogisticatum</i> . . .	2, 168	Aesculetin . . .	15, 23
" <i>vitriolicum</i> . . .	2, 175	" compounds obtained . . .	from . . .
Acolyctine . . .	18, 178	" hydrated . . .	16, 25
Aconitanic acid . . .	11, 403	" metallic compounds . . .	of . . .
Aconitate of Ethyl . . .	11, 403	Aesculin . . .	15, 341; 16, 19
Aconitates, metallic . . .	11, 405—407	" hydrated . . .	16, 22
Aconitic acid . . .	11, 402	<i>Aesculus Hippocastanum</i> , oil of . . .	the seeds of . . .
Aconitine . . .	18, 173	<i>Aether</i> . . .	7, 190
" salts of . . .	18, 176	" <i>sulfuricus</i> . . .	8, 171
Aconitobianil . . .	11, 409	<i>Aethiops martialis</i> . . .	5, 193
<i>Aconitum Napellus</i> , preparation . . .	11, 403	" <i>per se</i> . . .	6, 3
of Aconitic acid from . . .	11, 403	<i>Afer</i> . . .	7, 190
Acorin . . .	18, 213	Affinity . . .	1, 31—159
Acorns, sugar of . . .	15, 215	" alternating . . .	1, 125
volatile oil of . . .	14, 357	" chemical results of . . .	1, 33
Acrene series . . .	9, 363	" columns of . . .	1, 144
Acrid principle of the Daphnads . . .	17, 178	" of composition . . .	1, 35
" principles of Digitalis . . .	14, 531	" elective double . . .	1, 119, 140
" principle of White Mustard . . .	14, 527	" " simple . . .	1, 33, 117
Acrol . . .	9, 365	" fundamental notion of . . .	1, 33
Acrolein . . .	9, 365	" history of . . .	1, 33
" action of water on . . .	13, 551		
Acrylates, metallic . . .	9, 371		
Acryl-compounds, <i>see</i> Allyl-com- . . .	10, 543		

Affinity, influence of, on combination	1, 35—111	Air, Atmospheric, properties of	2, 402
„ influence of, on decomposition	1, 111—136	„ Atmospheric, weight of a litre of	1, 281
„ influence on, of condensation	1, 37	„ crystallisation influenced by access of	1, 9
„ influence on, of contact	1, 36	„ dephlogisticated	2, 20
„ influence on, of electricity	1, 37	„ destruction of organic germs in, by passing it through a red-hot tube ..	7, 109
„ influence on, of expansion	1, 37	„ effect of exclusion of, in arresting fermentation ...	7, 99
„ influence on, of light	1, 37	„ heavy inflammable	7, 249
„ influence on, of liquidity and gaseity	1, 36	„ „ combustable	7, 249
„ influence on, of temperature	1, 36	„ hepatic	2, 195
„ Kant's theory of phenomena of	1, 159	„ inflammable	2, 42
„ latent	1, 124	„ magnetic relations of ...	1, 516
„ mediating	1, 35	„ and Mercury, comparison of the expansion of by heat	1, 225
„ origin and nature of phenomena of	1, 145—159	„ nitrous	2, 377
„ predisposing, decompositions by	1, 124	„ rarefied, electric conducting power of	1, 312
„ range of	1, 34	„ vital	2, 21
„ reciprocal	1, 125—133	Air-gun light	1, 206
„ „ apparent cases of	1, 132	„ -pistol	2, 59
„ reciprocal, illustrations of	1, 129	„ -pump light	1, 105
„ „ influences affecting	1, 125	„ -pyrometer	1, 226
„ separating	1, 124	„ -thermometer	1, 226
„ strength of	1, 136—145	Ajwakaphul, <i>see</i> Thymol.	
„ synonymes of	1, 33	Akcethine	9, 13
„ tables of	1, 138, 140	Alabaster	3, 201
„ theories of	1, 31; and 145—159	Alanine... ..	9, 431
„ of individual substances, theory of	1, 160	Alantın	16, 112
„ works and memoirs relating to	1, 31	Alban	17, 342
Agalmatolite	3, 419, 452	Albertus Magnus	1, 4
Agaricin	18, 122, 213	Albite	3, 413
Aggregation, attraction of	1, 6	Albukasis	1, 3
Age or Axin	17, 47	Albumin, coagulated solution of in aqueous ammonia ..	18, 293
Aginin	17, 47	Albumin, coagulation of ..	18, 277, 281
Agitation, crystallisation effected by	1, 9	„ composition of	18, 281
Aggregation, state of, in organic compounds	7, 45	„ decomposition of, by dry distillation	18, 287
Aggregation of compounds, state of	1, 86	„ of Eggs, <i>see</i> Egg-albumin.	
Agricola, George	1, 4	„ non-coagulation of, by rennet	18, 302
<i>Agrostemma Githago</i> , preparation of Saponin from the seeds of	16, 86	„ of Plants, <i>see</i> Plant-albumin	
Air, alkaline	2, 416	„ supposed occurrence of, in milk	18, 275, 307
„ Atmospheric, memoirs relating to	2, 370	„ oxidation of, by permanganate of potash ..	18, 288
„ Atmospheric, composition of	2, 408—415	„ precipitation of, by carbonic, phosphoric, and boracic acids ..	18, 289
		„ precipitation of, by tannic acid	15, 473
		„ preparation of	18, 275, 282

- Albumin, preparation of, leucine from 11, 428
- „ properties of 18, 276, 283
- „ purification of, by dialysis 18, 282
- „ putrefaction of 18, 287
- „ reaction of, with acetic acid 18, 279, 292
- „ reaction of, with alcohol 18, 301
- „ reactions of, with alkalis 18, 279, 294
- „ reactions of, with albumina salts 18, 296
- „ reaction of, with arsenious acid 18, 296
- „ reaction of, with baryta water 18, 296
- „ reactions of, with bismuth salts 18, 297
- „ reaction of, with bromine 18, 288
- „ reaction of, with carbolic acid 18, 301
- „ reactions of, with copper oxides and salts 18, 297
- „ reaction of, with creosylic alcohol 18, 302
- „ reaction of, with dextrin 18, 302
- „ reaction of, with ether 18, 301
- „ reaction of, with ferrocyanide of potassium 18, 300
- „ reaction of, with chloride of gold 18, 300
- „ reaction of, with gum-arabic 18, 302
- „ reaction of, with hydrochloric acid 18, 278, 290
- „ reaction of, with iodic acid 18, 290
- „ reactions of, with iron salts 18, 297
- „ reactions of, with lead oxide and salts 18, 297
- „ reaction of, with lactic acid 18, 272
- „ reaction of, with lime 18, 296
- „ reactions of, with mercury salts 18, 298
- „ reaction of, with nitric acid 18, 292
- „ reaction of, with ozonised air 18, 287
- „ reactions of, with platinum salts 18, 300
- „ reaction of, with potash 18, 294
- Albumin, reaction of, with silver nitrate 18, 300
- „ reaction of, with strontia-water 18, 296
- „ reaction of, with sulphate of lime 18, 296
- „ reaction of, with sulphuric acid 18, 298, 289
- „ reaction of, with tannic acid 18, 302
- „ reaction of, with tin salts 18, 297
- „ reactions of, with zinc salts 18, 297
- „ saline solutions of, precipitation of, by phosphoric, acetic, lactic, oxalic, and tartaric acids 18, 293
- „ of serum 18, 274
- „ soluble, not obtained free from ash 18, 283
- „ vegetable 18, 426
- Albuminates, metallic 18, 303, 306
- Albuminic acid 18, 302
- Albumino-saline solutions, reactions of 18, 261
- Albuminose 18, 268, 323
- Albumin-peptone 18, 337
- „ -sulphuric acid, insoluble 18, 290
- „ -sulphuric acid, soluble 18, 289
- Albuminous substances, *see* Proteides
- „ substances, fermentation and putrefaction of 7, 97
- Alchemists, most renowned 1, 3, 6
- Alchemy, foundation of 1, 3
- Alcohol, absolute, preparation of 7, 197, 13, 415
- „ action of bromide and iodide of ethyl on 13, 418
- „ action of metallic chlorides, bromides, and iodides on 13, 418
- „ action of hydriodic acid on 13, 417
- „ action of hydrobromic acid on 13, 417
- „ action of hydrochloric acid on 7, 35, 116; 13, 417
- „ action of sulphuric acid and sulphates on 10, 515; 13, 419
- „ adulteration of volatile oils with 7, 161
- „ compounds of 8, 257

Alcohol of crystallisation, compounds containing .	8, 257	Alcohol, decomposition of, by chlorochromic acid .	8, 247
„ compounds of, with carbon, boron, phosphorus, and sulphur .	8, 263	„ decomposition of, by chloro-sulphuric acid .	8, 246
„ compounds of, with nitrogen .	8, 265	„ decomposition of, by chromic acid ..	8, 243
„ compounds of, with organic bodies .	8, 272	„ decomposition of, by combustion .	8, 206
„ compounds of, with oxygen and hydrogen .	8, 258	„ decomposition of, by corrosive sublimate .	8, 247
„ compounds of, with selenium, iodine, and chlorine .	8, 264	„ decomposition of, by corrosive sublimate and lime .	8, 245
„ constitution of .	8, 200	„ decomposition of, by the electric spark .	13, 415
„ conversion of, into chloral .	7, 34	„ decomposition of, by electricity .	8, 202
„ conversion of, into water and ether .	7, 35	„ decomposition of, by fluoride of arsenic .	8, 246
„ copulated acids produced by .	7, 224	„ decomposition of, by fluoboric acid .	8, 245
„ decomposition of, by alkalis .	8, 253	„ decomposition of, by fluosilicic acid .	8, 246
„ decomposition of, by aqua regia .	13, 416	„ decomposition of, by hydrobromic and hydriodic acids .	8, 253
„ decomposition of, by arsenic acid .	8, 243	„ decomposition of, by hydrochloric acid .	8, 246
„ decomposition of, by bichloride of platinum .	8, 248	„ decomposition of, by hydrofluoric acid .	8, 245
„ decomposition of, by bichloride of platinum and excess of potash .	8, 245	„ decomposition of, by hypochlorous acid .	8, 220
„ decomposition of, by bichloride of tin .	8, 250	„ decomposition of, by iodine .	8, 215
„ decomposition of, by boracic acid .	8, 243	„ decomposition of, by mercuric salts .	8, 255
„ decomposition of, by bromic acid .	8, 221	„ decomposition of, by nitric acid ..	8, 217
„ decomposition of, by bromine .	8, 214	„ decomposition of, by nitric oxide .	8, 217
„ decomposition of, by chloric acid .	8, 220	„ decomposition of, by osmic acid .	8, 245
„ decomposition of, by chloride of aluminium .	8, 247	„ decomposition of, by oxide of manganese and sulphuric acid .	8, 244
„ decomposition of, by chloride of arsenic .	8, 247	„ decomposition of, by pentachloride of antimony .	8, 247
„ decomposition of, by chloride of boron .	8, 246	„ decomposition of, by phosphoric acid ..	8, 242
„ decomposition of, by chloride of cyanogen .	8, 256	„ decomposition of, by phosphorus .	8, 216
„ decomposition of, by chloride of lime .	8, 214	„ decomposition of, by potassium and sodium .	8, 254
„ decomposition of, by chloride of silicium .	8, 247	„ decomposition of, by protochloride of iron .	8, 250
„ decomposition of, by chloride of zinc .	8, 252	„ decomposition of, by protochloride of platinum .	8, 247
„ decomposition of, by chlorine .	8, 211		

<p> ohol, decomposition of, by protochloride of sulphur . . . 8, 246 „ decomposition of, by protochloride of tin . . . 8, 252 „ decomposition of, by a red heat . . . 8, 201 „ decomposition of, by selenious acid . . . 8, 221 „ decomposition of, by sesquichloride of iron . . . 8, 249 „ decomposition of, by hy- drated sulphuric acid . . . 8, 222 „ decomposition of, by an- hydrous sulphuric acid . . . 8, 221 „ decomposition of, by terchloride of phos- phorus . . . 8, 246 „ decomposition of, by ter- chloride of vanadium . . . 8, 247 „ decomposition of, by terfluoride of chromium . . . 8, 246 „ decomposition of, by uranic sulphate . . . 8, 245 „ decomposition of, by vanadic acid . . . 8, 245 „ defuselisation of . . . 13, 415 „ flame fed with oxygen . . . 2, 29 „ formation of . . . 8, 195 „ „ from ole- fiant gas . . . 10, 511 „ formation of acetic acid by combustion of, in contact with plat- inum black . . . 8, 285 „ formation of ether and water from . . . 8, 225 „ formation of oxalic acid from . . . 13, 514 „ formation of sulpho- vinic acid from . . . 8, 222 „ hydrated, preparation of . . . 8, 195 „ hydrated, preparation of, from mangold- wurzels . . . 13, 414 „ literature and history . . . 8, 194 „ mixtures of, with ether . . . 8, 273 „ „ with wood- spirit . . . 8, 273 „ preparation of chloral from . . . 9, 201 „ preparation of ethylene from . . . 8, 163 „ properties of . . . 8, 199 „ resolution of, into water and olefiant gas . . . 7, 34 „ slow combustion of, in contact with iridium- black . . . 8, 209 </p>	<p> Alcohol, slow combustion of, in contact with heavy metallic oxides, earths, and charcoal . . . 8, 210 „ slow combustion of, in contact with metallic wires and laminae . . . 8, 209 „ slow combustion of, in contact with platinum- black . . . 8, 208 „ slow combustion of, in contact with spongy platinum . . . 8, 209 „ separation of, from water by distillation . . . 8, 262 „ separation of, from water, by passage of through membranes . . . 8, 260 „ separation of, from water by exposure to cold . . . 8, 260 „ solutions of metallic compounds in . . . 8, 265 „ solution of turpentine oil in . . . 14, 271 „ solution of volatile oils in . . . 7, 168 „ supposed relative posi- tions of atoms in . . . 7, 33 „ tables showing the rela- tion between strength and boiling-point of . . . 8, 261 „ tables showing the rela- tion between strength and density of . . . 8, 259 „ vapour, tension of, at different temperatures . . . 1, 262 „ and water, mixtures of . . . 8, 258 „ Allylic . . . 10, 544; 13, 540 „ Amylic, sources . . . 11, 9 „ Benzoic . . . 12, 18 „ Benzyllic . . . 12, 18 „ Butylic . . . 10, 71 „ Campholic . . . 14, 332 „ Caproic . . . 11, 413 „ Caprylic . . . 13, 183, 587 „ Cerotyllic . . . 13, 133 „ Cetyllic . . . 16, 344 „ Cinnamic . . . 13, 256, 286 „ Cresylic . . . 12, 229 „ Cumic . . . 14, 143 „ Cymylic . . . 14, 143 „ Hexylic . . . 11, 413 „ Melissic . . . 13, 150 „ Mesitic . . . 9, 1 „ Methylic . . . 7, 258 „ Methylic, synthesis of . . . 12, 477 „ Octylic . . . 13, 183, 587 „ Propylic . . . 9, 398 „ Sycoecrylic . . . 17, 43 </p>
---	---

Alcohol, Triethyl	9, 398	Aldehyde, Chlorocrotic	18, 140
Alcoholate of Baryta	13, 422	Cinnamic	13, 258
" Calcium-chloride	8, 267	Cinnamic	14, 144
" Linné-urate	8, 267	Euodine	14, 529
" Magnesia-nitrate	8, 268	Lauric	15, 43
" Magnesium-chloride	8, 268	Mesitic	9, 26
Alcoholates	8, 257	Essential	12, 416
Alcoholic fermentation	15, 265	Palmitic	16, 319
Alcoholic Potash, action of, on		Propionic	9, 400
chlorine-compounds	13, 421	Aldehyde-ammonia	8, 280
solutions	8, 257	-ammonia, bisulphate of	9, 287
Alcoholometer, Gay-Lussac's	1, 11	resin	17, 456
Alcoholometers	8, 260	Aldehydes	7, 25
Alcohol-radicals	7, 170	action of ammonia	
" from Boghead		on	7, 140, 142
cannel coal	13, 386	composition and clas-	
" compounds of,		sification of	7, 192
with earth-metals	13, 192	properties of	7, 193
Alcohols, action of phosphorus		Aldehydic Acid	8, 181
terchloride on	10, 487	Aldides, <i>see</i> Aldehydes	
" constitution and pro-		<i>Alectorolophus kusatus</i> , bitter of	18, 239
perties of	7, 191	Alembics	1, 288
" expansion of, by heat	1, 226—231	Aleurone	18, 385
" formation of, in various		Alizarin	14, 129
fermentation	15, 265, 276	" compounds of, with	
Alcomine	18, 211	metallic oxides	14, 139
<i>Alcyonum exos</i> , phosphorescence		" compound of, with ve-	
of	1, 186	rantin	16, 60
Aldehyde	8, 274, 9, 518, 13, 13	" formation of, from	
" action of chlorine on	12, 535	rubian	16, 36
" action of sulphurous		" hydrate	14, 138
acid gas on	13, 111	" preparation of, from	
" combinations of	8, 277	madder	14, 133, 16, 33
" compound of, with		" preparation of, from	
acetic anhydride	13, 410	rubian	14, 133
" compound of, with		Alizarites, metallic	14, 139
chloride of acetyl	13, 411	Alkali, aerated vegetable	3, 18
" decompositions of	8, 277; 13, 439, 410	" definition of	3, 3
" expansion of, by heat	1, 231	" mild mineral	3, 78
" formation and prepara-		" mineral	3, 74
tion of	8, 275	" produced by oxidation of	
" formation of, from		creatin	9, 378
acetal	13, 437	" vegetable	3, 10
" formation of, from		<i>Alkali vegetale fixum</i>	3, 14
sulphovinic acid	13, 438	Alkali, volatile	2, 416
" liquid isomeride of	8, 281	Alkali-metals	3, 2
" preparation of	13, 439	" action of, on or-	
" properties of	8, 277	ganic compounds	7, 115
" solid and fusible iso-		Alkaline Air	2, 416
merides of	8, 281	" Bisulphates	2, 226
" solid and infusible		" Bisulphates, compounds	
isomeride of	8, 281	of, with acetone	10, 522
" supposed relative po-		" Bisulphates, compounds	
sition of atoms in	7, 32	of, with bitter almond oil	12, 27
" Capric	14, 489	" Bisulphates, compounds	
" Caprylic	18, 187	of, with cinnamic alde-	
" Cetyllic	16, 349	hyde	13, 263
		" Bisulphates, compounds	
		of, with cummul	14, 117

Alkaline Earths	3, 133	Alkarsin with Mercuric Chloride	9, 324
„ Hydrates, action of, on compound Ethers	13, 388	„ with Nitrate of Silver	9, 325
„ Hydrosulphates	2, 225	Alkaptone	18, 112
Alkalis	2, 39	<i>Alkohol Aceti</i>	8, 282
„ electrolysis of	1, 458	<i>Alkohol Vin</i>	8, 194
„ fixed, action of, on organic compounds	7, 133	Alkophyr	18, 337
„ fixed, peculiar behaviour of organic compounds containing nitrogen or chlorine towards	7, 158	Allantc	3, 427
„ organic, <i>see</i> Alkaloids		Allantonic Acid	10, 260
„ less soluble or earthy	3, 133	Allantom	10, 259
„ reactions of, with cyanogen	7, 387	„ metallic compounds of	10, 262
„ vegetable, <i>see</i> Alkaloids		Allantonic Acid ?	9, 417
Alkaloid, bitter, of Carapa-bark	17, 314	Allitonic Acid ?	9, 413
„ bitter, of Copalche-bark	17, 314	Allophanate of Amyl ?	11, 74
„ from <i>Pteris aquilina</i>	10, 410	„ Ethyl	9, 267
„ Stenhouse's, from kidney beans	10, 408	Allophanates, metallic	9, 267
„ from the seeds of <i>Tilax Ignus Castus</i>	18, 212	Allophane	3, 413
Alkaloids, artificial preparation of	7, 178	„ Opaline	3, 411
„ combinations of	7, 181	Allophamic Ether	9, 267
„ decompositions of	7, 181	Alloxan	10, 171
„ electrolysis of aqueous solution of	7, 182	„ decomposition of	10, 171
„ history of	7, 176	„ hydrates of	10, 177
„ literature of	7, 175	„ preparation of, from uric acid	10, 171
„ natural, preparation of ...	7, 177	Alloxan, preparation of Murexide from	10, 194
„ non-existence of ready-formed ammonia in	7, 188	„ properties of	10, 171
„ odour of	7, 180	Alloxanates, metallic ..	10, 161—169
„ precipitation of, by inorganic bases, salts, &c	7, 183	Alloxamic acid	10, 160, 565
„ precipitation of, by organic acids and salts	7, 183	Alloxantin	10, 186
„ precipitation of, by tannic acid	7, 177, 15, 473	„ compound of, with urea	13, 405
„ properties of	7, 180	„ hydrated	10, 190
„ salts of	7, 182	„ preparation of Murexide from	10, 194
„ solubility of, in alcohol	8, 274	Alloys, expansion of certain, in solidifying	1, 256
„ non-oxygenated, composition of	7, 186	„ two solidifying points of	1, 256
„ oxygenated, composition of	7, 187	„ of Aluminium	3, 239
„ of Escholtzia	17, 162	„ Antimony	4, 392
„ Sangumaria	17, 162	Alloy of Antimony, Bismuth, and Tin	5, 104
Alkanet-red	17, 17	Alloys of Arsenic	4, 316
Alkargen	9, 327	„ Barium	3, 166
Alkarsin	9, 320	„ Bismuth	4, 150
„ with Mercuric Bromide	9, 323	Alloy of Bismuth and Copper	5, 477
		Alloys of Bismuth, Lead, and Tin	5, 180
		Alloy of Bismuth and Silver	6, 193
		Alloys of Cadmium	5, 66
		„ Calcium	3, 220
		Alloy of Cobalt and Iron	5, 351
		„ Cobalt and Tin	5, 354
		„ Copper and Barium ?	5, 462
		„ Copper and Cadmium	5, 481
		„ Copper and Iron	5, 489
		„ Copper, Iron, and Zinc	5, 496
		„ Copper and Lead	5, 484
		„ Copper, Lead, Tin, and Zinc	5, 488

Alloy of Copper and Manganese	5, 468	Alloy of Platinum and Barium	6, 327
„ Copper and Molybdenum	5, 467	„ Platinum and Bismuth	6, 333
„ Copper, Nickel, and Zinc	5, 497	„ Platinum and Cadmium	6, 335
„ Copper and Potassium	5, 456	„ Platinum and Copper	6, 337
Alloys of Copper and Tin	5, 481	„ Platinum, Copper, and Zinc	6, 338
Alloy of Copper and Tungsten	5, 466	„ Platinum and Gold	6, 339
Alloys of Copper and Zinc	5, 477	„ Platinum and Iron	6, 336
„ Glucinum	3, 302	„ Platinum and Lead	6, 335
Alloy of Gold and Bismuth	6, 238	„ Platinum and Molybdenum	6, 331
„ Gold and Cobalt	6, 216	„ Platinum and Nickel	6, 337
„ Gold and Copper	6, 246	„ Platinum and Palladium	6, 358
„ Gold, Copper, and Zinc	6, 246	„ Platinum and Potassium	6, 320
„ Gold and Iron	6, 245	„ Platinum and Silver	6, 339
„ Gold and Lead	6, 215	„ Platinum and Sodium	6, 323
„ Gold and Manganese	6, 237	„ Platinum and Tungsten	6, 331
„ Gold and Molybdenum	6, 237	„ Platinum and Tin	6, 335
„ Gold and Nickel	6, 216	„ Platinum and Vanadium	6, 331
„ Gold and Potassium	6, 226	„ Platinum and Zinc	6, 333
„ Gold and Silver	6, 217	Alloys of Potassium	3, 72
„ Gold, Silver, and Copper	6, 251	„ Rhodium	6, 368
„ Gold, Silver, and Palladium	6, 358	„ Rhodium and Lead	6, 368
„ Gold and Tin	6, 239	„ Silver	3, 465
„ Gold and Tungsten	6, 237	Alloy of Silver and Barium	6, 181
„ Gold and Zinc	6, 239	„ Silver and Copper	6, 197
„ Iridium and Copper	6, 392	„ Silver and Iron	6, 195
„ Iridium and Gold	6, 393	„ Silver and Lead	6, 191
„ Iridium and Lead	6, 392	„ Silver and Molybdenum	6, 183
„ Iridium and Silver	6, 392	„ Silver and Nickel	6, 196
Alloys of Iridium and Platinum	6, 393	„ Silver, Antimony, and Potassium	6, 192
Alloy of Iridium and Tin	6, 391	„ Silver and Potassium	6, 177
„ Iron and Aluminum	5, 275	„ Silver and Tin	6, 194
„ Iron and Barium	5, 273	„ Silver and Tungsten	6, 182
„ Iron and Glucinum	5, 271	„ Silver and Zinc	6, 191
„ Iron and Lead	5, 315	„ Sodium and Zinc	5, 41
„ Iron and Magnesium	5, 271	Alloys of Tantalum	4, 14
„ Iron and Potassium	5, 264	„ Tellurium	4, 426
„ Iron and Tin	5, 314	„ Tin and Bismuth	5, 104
„ Iron and Zinc	5, 312	Alloy of Tin and Potassium	5, 95
„ Lead and Bismuth	5, 178	„ Tin and Sodium	5, 98
„ Lead and Potassium	5, 160	Alloys of Tin and Zinc	5, 105
„ Lead and Sodium	5, 162	„ Titanium	3, 488
Alloys of Lead and Tin	5, 179	„ Tungsten	4, 47
„ Lead, Tin, and Zinc	5, 181	„ Uranium	4, 194
Alloy of Lead and Zinc	5, 179	„ Vanadium	4, 104
Alloys of Lithium	3, 132	„ Zinc	5, 51
„ Magnesium	3, 251	Alloy of Zinc and Bismuth	5, 51
„ Manganese	4, 218	„ Zinc and Cobalt	5, 353
„ Molybdenum	4, 80	„ Zinc and Potassium	5, 42
Alloy of Nickel and Bismuth	5, 393	Allyl	13, 538
„ Nickel and Cobalt	5, 397	„ Acetate	10, 513, 13, 514
„ Nickel and Copper	5, 497	„ Alcohol	10, 541, 13, 540
Alloys of Nickel and Iron	5, 394	„ Benzoate	12, 841, 13, 515
Alloy of Nickel and Lead	5, 394		
„ Nickel and Tin	5, 391		
„ Nickel and Zinc	5, 394		
Alloys of Palladium	6, 355—357		

Allyl Bibromide . . .	13, 542	Alumina-salts (<i>continued</i>)	Ali-
„ Bimodide . . .	13, 541	„ zarite . . .	14, 140
„ Butyrate .. .	13, 545	„ Amylosulphate . . .	11, 58
„ Carbonate . . .	13, 513	„ Apocrenate . . .	17, 470
„ Cyanate . . .	13, 514	„ Asemate . . .	4, 310
„ Iodide . . .	13, 511	„ Azelaate . . .	17, 81
„ Oxide . . .	9, 363, 13, 539	„ Benzoate . . .	12, 40
„ Oxalate . . .	13, 515	„ Borates . . .	3, 309
„ Oxamate . . .	13, 516	„ Bromate . . .	3, 315
„ Persulphide (P) . . .	9, 377	„ Camphorate . . .	14, 461
„ Sulphide . . .	13, 372, 13, 540	„ Carbonate . . .	3, 308
„ Sulphocyanide . . .	13, 511	„ Chlorate . . .	3, 316
„ Terbiomide . . .	13, 542	„ Cinnamate . . .	13, 275
„ Valerate . . .	13, 545	„ Citrate . . .	11, 452
„ and Silver, Nitrate of . . .	9, 364	„ Metaphosphate . . .	3, 311
Allylamine . . .	13, 547	„ Mucate . . .	11, 507
Allyl-mecaptan . . .	13, 541	„ Nitrates . . .	3, 318
Allyl-naphthyl-sulphocarbamide . . .	14, 122	„ Oxalates . . .	9, 135
Allyl-sulphuric Acid . . .	13, 513	„ Perchlorate . . .	3, 317
Allyl-urea . . .	13, 516	„ Phosphates . . .	3, 309
Allyl-xanthic Acid . . .	13, 541	„ Phosphite . . .	3, 309
Almond Legumin . . .	18, 433	„ Pyrogallate . . .	11, 401
Almond Oil . . .	17, 92	„ Pyrophosphate . . .	3, 311
Alcoeretic Acid . . .	12, 9	„ Pyrotartrate . . .	11, 92
Aloes . . .	17, 618	„ Rhodizonate . . .	10, 402
„ artificial bitter of . . .	12, 1	„ Selenites . . .	3, 314
„ preparation of picric acid . . .	11, 213	„ Silicates . . .	3, 411
„ from . . .	12, 12	„ Silicate of, with fluoride of silicon, or fluoride of aluminum . . .	3, 419
Aloetamide . . .	12, 12	„ Suberate . . .	13, 210
Aloetic Acid . . .	12, 1—10	„ Succinate . . .	10, 122
Alom . . .	16, 461	„ Sulphates . . .	3, 312
Aloisic Acid? . . .	13, 216	„ Sulphindigotate . . .	13, 64
Aloisol . . .	13, 214	„ Sulphites . . .	3, 311
Alouchi resin . . .	17, 396	„ Tannate . . .	15, 466
Alphajalopic Acid . . .	16, 411	„ Tantallate . . .	4, 14
Alphanese . . .	5, 471	„ Tartrate . . .	10, 291
Alpha-orcin . . .	12, 368	„ Tellurate . . .	4, 425
Alpha-phlorctin . . .	16, 10	„ Tellurite . . .	4, 425
Alpha-quercetin . . .	16, 491	„ Tungstate . . .	4, 45
Alpha-quindine . . .	17, 295	„ Valerate . . .	11, 33
Alphatoluic Acid . . .	17, 151	„ Vanadate . . .	4, 103
Alphone, sulphide . . .	9, 394	„ Zirconate . . .	3, 349
Alstonia bitter . . .	18, 214	„ and Ammonia, carbonate of . . .	3, 318
Althaea, soft resin of . . .	17, 116	„ and Ammonia, sulphate of . . .	3, 318
Althium . . .	10, 210	„ and Ammonia, tartrate of . . .	10, 292
Alternating affinity . . .	1, 125	„ and Baryta, oxalate of . . .	9, 135
Althionates . . .	8, 432	„ and Ethylamine, Sulphate . . .	13, 431
Aludels . . .	6, 2	„ and Ferric Oxide, sulphate of . . .	5, 277
Alum, Ammonia . . .	3, 318	„ and Ferrous Oxide, sulphate of . . .	5, 276
„ Basic Potash . . .	3, 323	„ and Lithia, phosphate of . . .	3, 326
„ Cubic . . .	3, 323		
„ Potash . . .	3, 303, 321		
„ Soda . . .	3, 325		
„ Spirit of . . .	3, 322		
„ use of, for steeping wood . . .	7, 113		
Alumina . . .	3, 304		
„ behaviour of, with fluxes . . .	3, 325		
Alumina-salts . . .	3, 307		
„ Acetate . . .	3, 303; 13, 443		

Alumina and Lithia, sulphate of	3, 326	Aluminum, Chloride of with phosphuretted hydrogen	3, 317
„ and Magnesia, phosphate of	3, 328	„ Chloride, hydrosulphate of	3, 317
„ and Magnesia, sulphate of	3, 329	„ Ferrocyanide	7, 186; 13, 408
„ and Manganous Oxide, silicate of	4, 215	„ Fluoride of, with alumina	3, 317
„ and Manganous Oxide, sulphate of	4, 212	„ Fluoride of, with hydrofluoric acid	3, 320
„ and Methylamine, sulphate	13, 181	„ Hydrated Chloride of, with alumina	3, 316
„ and Platine Oxide, sulphate of	6, 330	„ Hydrated Fluoride	3, 318
„ and Potash, carbonate of	3, 321	„ Hydrated Fluoride	3, 317
„ and Potash, oxalate of	9, 135	„ Oxide	3, 304
„ and Potash, sulphate of	3, 321	„ Phosphide	3, 309
„ and Potash, tartarate of	10, 292	„ Platino-platimidecyanide	8, 55
„ and Soda, oxalate of	9, 135	„ Selenide	3, 314
„ and Soda, pyrophosphate of	3, 325	„ Sulphide	3, 311
„ and Soda, sulphate of	3, 325	„ Sulphocyanide	8, 85
„ and Strontia, oxalate of	9, 135	„ Telluride	4, 425
„ and Zinc-oxide, sulphate of	5, 46	„ and Copper, fluoride of	5, 464
„ with Fluoride of Aluminum	3, 317	„ and Iron, alloy of	5, 275
Aluminate of Ammonia	3, 316	„ „ carbide of	5, 276
„ Baryta	3, 327	„ and Lithium, fluoride of	3, 327
„ Cobalt-oxide	5, 315	„ and Molybdenum	4, 78
„ Cupric oxide	5, 464	„ and Nickel, fluoride of	5, 316
„ Ferrous oxide	5, 275	„ and Potassium, chloride of	3, 323
„ Glucina	3, 329	„ and Potassium, fluoride of	3, 324
„ blue Iridium Oxide?	6, 291	„ and Sodium, chloride of	3, 326
„ Lead-oxide, hydrous	5, 165	„ and Sodium, fluoride of	3, 326
„ Lime	3, 327	„ and Zinc, fluoride of	5, 46
„ Magnesia	3, 328	Alum-stone	3, 323
„ Magnesia, with Silicate of Magnesia	3, 462	Aluminous Augite	3, 403
„ Nickel-oxide	5, 386	Alyssa-camphor	14, 357
„ Potash	3, 320	Amalic acid	11, 433
„ Soda	3, 325	Amalic acid, decomposition-product of	14, 505
„ Strontia	3, 327	Amalgam of Aluminum	6, 110
„ Zinc-oxide	5, 46	„ ammoniacal	6, 67
Aluminate	3, 312	„ of Antimony	6, 120
Aluminum	3, 303	„ Antimony and Lead	6, 127
„ -alloys	3, 329	„ Arsenic	6, 116
Aluminum-amalgam	6, 110	„ Barium	6, 105
Aluminum, Aisende	4, 310	„ Bismuth	6, 122
„ Bromide	3, 314	„ Bismuth and Lead	6, 127
„ Chloride	3, 315	„ Bismuth, Tin, and Lead	6, 128
„ Chloride of, with ammonia	4, 20	„ Cadmium	6, 124
		„ Calcium	6, 107
		„ Iridium	6, 392

Amalgam of Cobalt	6, 129	Amide of Potassium	3, 67
„ Copper	6, 131	„ Sodium	3, 116
„ Gold	6, 217	Amides	7, 24
„ Gold and Silver	6, 251	„ Cyane	9, 253
„ Iron	6, 128	Amidobenzoate of Ethyl	12, 148
„ Lead	6, 126	„ „ Methyl	12, 146
„ Lithium	6, 105	Amidobenzoates, metallic	12, 145
„ Magnesium	6, 108	Amidobenzoic acid	12, 142
„ Manganese	6, 115	Amido-bromide of Mercury	6, 83
„ native	6, 199	Amido-chloride of Mercury	6, 84
„ of Nickel	6, 130	Amidocummate of Ethyl	14, 176
„ Osmium	6, 422	Amidocummic acid	14, 174
„ Palladium	6, 357	Amidogen	2, 416
„ Platinum	6, 338	„ -acids	7, 197
„ Potassium	6, 97	„ Bromide	2, 469
„ Potassium and So-		„ Chloride	2, 470
„ dium	6, 105	„ Iodide	2, 465
„ Silver	6, 198	„ Nuclei	7, 170
„ Sodium	6, 103	„ „ aldehydes of	7, 195
„ Strontium	6, 106	„ substitution of, for	
„ Tellurium	6, 121	„ hyponitric acid	7, 75
„ Tin	6, 124	„ substitution of, for	
„ Tin and Bismuth	6, 126	„ oxygen	7, 75
„ Tin and Lead	6, 127	„ theory (Kane's)	2, 429
„ Tin and Zinc	6, 126	Amido-iodide, mercuric	6, 81
„ Zinc	6, 122	Anodon	15, 73, 94
„ Zincum	6, 110	Amidonitroacetonanil	11, 326
Amalgamation of Gold-ores	6, 201	Amidonitroaniline	11, 293
„ Silver-ores	6, 134	Amidonitroxanil	11, 313
Amanilum	11, 330	Amidonitrovanilic acid	11, 313
Amandin	18, 435	Amidophenase	11, 216
Anautin	18, 214	Amidosulphobenzene	11, 347
Anarine	12, 194	Amidoxychloride, mercuric	6, 88
Amarone	12, 208	Amidoxypropionic acid	18, 368
Amarythrin	12, 374, 976	Amisatin	13, 115
Amber	17, 430	Amilates	15, 100
Amber-camphor	14, 510	Ammelide	9, 476, 10, 518
„ oil	14, 323	Ammelide, formation of, by the	
„ preparation of succinic		action of anhydrous phosphoric	
acid from	10, 110	acid on urea	13, 403
Ambren	18, 120	Ammeline	9, 474, 10, 318
Ambrite	17, 433	Ammeline, properties of	11, 275
Amethanes	7, 220	„ preparation of	11, 265
American petroleum, hydrocar-		Ammon, sulphates of	2, 455—461
bons obtained from	16, 532	Ammon-argentumammonium, oxal-	
American process of amalgamation	6, 134	ate	13, 529
Amiano naphtha	16, 439	Ammonia, action of, on organic	
Amianth	3, 407	compounds	7, 140
Amidunite of ammonium	13, 144	„ „ of, on zinc-	
„ silver	13, 144	ethyl	13, 503
Amidunite acid	13, 143	Ammonia-alum	3, 318
Amide, mercuric, compounds of		„ „ with Potash Alum	3, 323
with basic mercuric nitrate	6, 94	„ aqueous	2, 423
Amide, mercuric, with mercuric		„ bases, action of zinc-	
bromate	6, 83	ethyl on	13, 503
Amide, mercuric, with trisul-		„ -chrome-alum	4, 142
phate of mercuric oxide	6, 79	„ compounds of	2, 426
Amide, mercurous, with trisul-		„ compound of, with	
phate of mercurous oxide?	6, 78	aesculetin	16, 25

Ammonia, compound of, with Antimonic Oxide	4, 371	Ammonia, compound of, with Zinc-arsenate	5, 50
" compound of, with Chloride of Aluminium	3, 320	" with Zinc-oxide	5, 35
" with Chromium Tetrafluoride	4, 143	" with Zinc-sulphate	5, 37
" with Cobaltous Oxalate	9, 161	" decompositions of	2, 421
" and Cupric Oxide, Acetate of	8, 326	" formation of	2, 417
" and Cupric Oxide, Carbonate of	5, 418	" formation of, in the excrements of nitrogenous organic bodies	7, 92, 94
" with Cupric Oxalate	9, 165	" formation of, in fermentation and putrefaction	7, 97
" with Cupric Cyanurate	9, 455	" formation of, by the action of nitric acid on organic compounds	7, 124
" with Cupric Oxide	5, 417	" gas, absorption of, by volatile oils	7, 168
" with Cupric Sulphocyanide	8, 91	" gas, liquefaction and solidification of	2, 420
" with Cuprous Oxide	5, 417	" gas, maximum tension of, at different temperatures	1, 261; 2, 503
" with Cuprous Sulphocyanide	8, 93	" gas, properties of	2, 420
" with Cyanide of Mercury	8, 17	Ammonia-iron alum	5, 262
" with Ethylchloride of Platinum	8, 390	" -manganese alum	4, 233
" with Ferrocyanide of Zinc	7, 490	" memoirs relating to	2, 369
" with Glyoxal	12, 504	" presence of, in the air	2, 411
" with Mellitate of Palladium	10, 13	" preparation of	2, 420
" with Mercurous Bromate?	6, 83	" reaction of, with cyanogen in aqueous solution	7, 388
" with Naphthionate of Silver	14, 115	" real amount of, in aqueous ammonia of different densities	2, 425
" with Ceanthol	12, 419	" -salts	2, 426
" with Oxalate of Nickel	9, 163	" -salts, solubility of, in alcohol	8, 265
" with Oxide of Cadmium	5, 61	" Acetates	8, 294
" with Phosphoric Oxide	2, 410	" Acetates	11, 405
" with Phlorizon	16, 16	" Alloxanate	10, 161
" with Platinocyanide of Cobalt	8, 55	" Aluminate	3, 318
" with Platinocyanide of Copper	8, 56	" Amidanitate	13, 144
" with Platinocyanide of Nickel	8, 55	" Amylphosphate	11, 51
" with Protoeyanide of Palladium	8, 59	" Amylsulphate	11, 56
" with Platinocyanide of Silver	8, 58	" Amylsulphite	11, 53
" with Platinocyanide of Zinc	8, 55	" Amylxanthate	11, 61
" with Prussian blue	7, 415	" Anacardate	17, 521
" with Rue-oil	14, 492	" Anchoate	13, 375
" with Silver-cyanurate	9, 457	" Angelate	10, 415
" with Silver-oxide	6, 172	" Amate	13, 126
		" Antimonates	4, 372
		" Antimonite	4, 372
		" Antitrate	10, 367
		" Apocrenate	17, 470
		" Apophyllite	13, 155
		" Arachidate	17, 371
		" Argentate	6, 172

Ammonia-salts (<i>continued</i>)		Ar-	Ammonia,	Chelidonate	12, 415
	gento-bromate	6, 175		Chloracetate	11, 70
	Argento-chlorate	6, 181		Chloranilamate	11, 211
	Argento-hyposulphate	6, 171		Chloranilate	11, 191
	Argento-nitrite	6, 176		Chlorate	2, 480
	Argento-perchlorate	6, 176		Chlorite	2, 479
	Argento-selenate	6, 175		Chlorobenzoate	12, 114
	Argento-sulphate	6, 171		Chloroborate	2, 481
	Arsenates	4, 287		Chlorocarbonate	2, 480
	Arsenites	4, 287		Chlorocinnamate	13, 296
	Aspartate	10, 231		Chloromercurite	6, 83
	Aurate	6, 222		Chloromceate	11, 177
	Aurite	6, 222		Chlorosulphosomethy-	
	Benzoate	12, 38		late	7, 301
	Benzoglycolate	12, 66		Cholate	18, 49
	Bibromobutyrate	10, 137		Chromate	4, 141
	Bibromophoretate	13, 331		Chromite	4, 140
	Bichlorosulphosome-			Chrysanilate	12, 331
	thylate	7, 303		Cinnamate ..	13, 274
	Bichromate of, with			Citraconate	10, 419
	protochloride of			Citrates ...	11, 445
	mercury ..	6, 115		Cobalto-bromate ?	5, 341
	Biethylmeconate	12, 434		Cobalto-hyposulphate	5, 339
	Bihydrotellurate	4, 414		Cobalto-nitrate	5, 342
	Binetrobenzoate	12, 135		Comenamate	11, 394
	Binetrophoretate	13, 332		Comenate ..	11, 384
	Binetrosalicylate	12, 315		Crenate ...	17, 467
	Bisulphetholate	12, 516		Cuminate	14, 150
	Bisulphite, compound			Cupro-bromate	5, 452
	of, with Acetone	13, 469		Cupro-fumarate	10, 30
	Bisulphite, with An-			Cupro-hyposulphate	5, 448
	nylous acid	13, 122		Cupro-iodate	5, 452
	Bisulphite with Bitter			Cupro-mellitate ..	10, 11
	Almond oil	12, 27		Cupro-nitrate	5, 455
	Bisulphite, with Cu-			Cupio-sulphate	5, 419
	minol ..	14, 147		Cyanate	8, 65
	Bisulphite, with Gly-			Cyanurate	9, 452
	oxal	12, 504		Dialurate	10, 157
	Bisulphite, with Ni-			Elaidate	17, 77
	trobenzaldehyde	12, 121		Ellagrate	16, 187
	Bisulphite, with Cén-			Ethionate	8, 433
	anthol	12, 449		Ethylsulphite	8, 408
	Bisulphite, with Rue			Ethylsulphobenzoate	12, 63
	oil	14, 492		Euchroate	10, 20
	Bisulpho - hydrokino-			Eugenate	14, 204
	nate	16, 211		Euxanthate	17, 533
	Bisulphometholate	12, 484		Ferrite ?	5, 260
	Bithiobenzolate	11, 237		Fluoborate	2, 489
	Borates	2, 435		Formate	7, 276
	Bromacetate	12, 533		Formate of, with	
	Bromate	2, 469		Cyanide of Mercury	8, 26
	Bromomercurate	6, 82		Fulminurate	10, 558
	Butyrate	10, 84		Fumarate	10, 25
	Camphorates	14, 456		Gallate	12, 405
	Caprate	14, 487		Gambodate ..	17, 417
	Caproate	11, 416		Glycerate	13, 570
	Carbolate	11, 151		Glycocholate	18, 59
	Carbonates	2, 430		Glyoxalate	12, 506; 13, 434
	Cetrate	17, 24		Hemipinate	14, 431

Ammonia, Hippurate	12, 75	Ammonia, Metatartrate	10, 328
" Hydriodate	2, 468	" Methylbutyrosalicylate	12, 310
" Hydriodate	2, 168	" Molybdate	4, 66
" Hydrobromate	2, 469	" and Zinc Molybdate	5, 48
" Hydrobromate of,		" Mucate	11, 504
containing sesqui-		" Muriate	2, 478
chloride of iron	5, 262	" Mycomelate	10, 183
" Hydrochlorate	2, 178	" Naphthionate	14, 112
" Hydrochlorate and		" Niccolate	5, 379
Stannite	5, 95	" Niccolo-iodate	5, 382
" Hydrofluates	2, 488	" Niccolo-nitrate	5, 384
" Hydrofluat of, with		" Niccolo-sulphate	5, 381
Fluoride of Alumi-		" Nitrate	2, 490
nium	3, 320	" Nitrite	2, 489
" Hydrofluat of, with		" Nitrobenzoate	12, 123
Sesquifluoride of		" Nitrochlorocarbolate	11, 210
Chromium	4, 143	" Nitrocinnamate	13, 301
" Hydroselenates	2, 464	" Nitrococussate	13, 26
" Hydrosulphates	2, 451	" Nitrohippurate	12, 130
" Hydrosulphate of,		" Nitroththalates	13, 29
with Trisulphide of		" Nitrosalicylate	12, 308
Chromium	4, 142	" Nitrosalicylate	12, 305
" Hydrosulphate	2, 452	" Nitrosopelargonate	13, 372
" Hydrosulphocarbonate	2, 163	" Nitrotoluylate	13, 22
" Hypochlorate ?	2, 480	" Oenanthate	12, 456
" Hypochlorite	2, 479	" Oenanthylate	12, 453
" Hypohydrosulphate	2, 452	" Oleate	17, 69
" Hypohydrosulphate	2, 453	" Osmunate	6, 415
" Hypophosphite	2, 411	" Osmiate	6, 115
" Hyposulphaursenite	4, 288	" Opuniate	14, 129
" Hyposulphate	2, 458	" Oxalates	9, 122
" Hyposulphite	2, 451	" Oxamate	13, 536
" Hypovanadate	4, 96	" Oxanilate	11, 311
" Iodate	2, 109	" Oxamate	10, 170
" Iodide ?	2, 467	" Palmate	16, 360
" Iodomercurate	6, 80	" Pectate	15, 406
" Iodomercurite	6, 80	" Pelargonate	13, 370
" Isamate	13, 110	" Perchlorate	2, 480
" Isatosulphite	13, 56	" Phosphates	2, 441
" Isethionate	8, 429	" Phosphite	2, 441
" Isobiglycoethylenate	15, 234	" Phthalumate	13, 30
" Isotartarate	10, 331	" Phthalate	13, 12
" Itaconate	10, 426	" Picramate	11, 214
" Jalapinate	16, 402	" Pierceate	11, 220
" Kinate	16, 227	" Piperate	15, 9
" Kinovate	18, 25	" Platinate	6, 296
" Lactamate, acid	11, 471	" Permanganate	4, 231
" Lactate	11, 481	" Plumbite	5, 158
" Leucate	15, 60	" Propionate	9, 405
" Lichenate	16, 196	" Purpurate	10, 192
" Malate	10, 213	" Pyrogallate	11, 400
" Malcate	8, 151	" Pyromucate	10, 385
" Mandelate	12, 58	" Pyrophosphate	2, 412
" Meconate	12, 427	" Pyrotartrates	11, 87
" Mellitate	10, 3	" Racemate	10, 349
" Mercurate	6, 77	" Rhodate	6, 364
" Mesaconate	10, 428	" Rhodizionate	10, 400
" Meta-antimoniate	4, 372	" Rocellate	16, 476
" Metaphosphate	2, 442	" Rubianate	16, 40

anionia, Saccharate	11, 516	Ammonia and Alumina Tartrate	10, 292
" Salicylate	12, 250	and Arsenious acid,	
" Salicylite	12, 230	Racemate	10, 355
" Sebates	14, 497	and Arsenious acid,	
" Selenites	2, 461	Tartrate	10, 296
" Silicate	3, 368	and Baryta, Carbonate	3, 163
" Stannate	5, 93	and Cerous oxide, Car-	
" Stearate	17, 107	bonate	3, 272
" Styphnate	11, 231	and Cerous oxide, Sul-	
" Suberate	13, 208	phate	3, 272
" Succinate	10, 115	and Chromic oxide,	
" Sulphanilate	11, 297	Carbonate	4, 142
" Sulphates	2, 462	and Chromic oxide,	
" Sulphate of, with		Sulphate	4, 142
" cupric malate	10, 225	and Cobalt oxide,	
" Sulphindigotate	13, 62	Carbonate	5, 339
" Sulphisatanate	13, 106	and Cobalt-oxide, Ni-	
" Sulphites	2, 457	trate	5, 342
" Sulphocampborate	13, 379	and Cobalt-oxide,	
" Sulphocarbonate	2, 462	Sulphate	5, 340
" Sulphophosphate	13, 96	and Cupric oxide,	
" Sulphophosphate	2, 463	Chromate	5, 468
" Sulphosalicylate	12, 276, 277	and Cupric oxide,	
" Sulphosomethylate	7, 299	Sulphates	5, 450
" Sulphosuccinate	10, 130	Cupric oxide, and	
" Sulphotellurite	4, 415	Magnesia, Sulphate	5, 463
" Sulphotoluete	12, 231	and Ferric oxide, of	
" Sulphovinate	8, 419	Carbonate	5, 260
" Sylvate	17, 320	and Ferric oxide,	
" Tannate	15, 163	Phosphate	5, 261
" Tantalate	4, 81	and Ferric oxide, Sul-	
" Tartrate	10, 311	phate	5, 262
" Tartrates	10, 273	and Ferrous oxide,	
" Tartrelate	10, 334	Phosphate	5, 260
" Tartromalate, acid	10, 274	and Ferrous oxide,	
" Tartrovinate	10, 311	Sulphate	5, 261
" Tellurates	4, 411	and Glucina, Carbonate	3, 300
" Tellurites	4, 411	and Glucina, Oxalate	13, 520
" Terechloracetate	9, 211	and Lead-oxide, Hy-	
" Terechlor-sulphosome-		posulphite	5, 158
thylate	7, 352	and Lead, Malate	10, 224
" Thiacetate	13, 418	and Lead-oxide, Sul-	
" Thionaphthamate	14, 116	phate	5, 159
" Thionurate	10, 181	and Lithia, Phosphate	3, 132
" Titanate	3, 483	" Sulphate	3, 132
" Toluylate	13, 9	and Lime, Arsenate	4, 306
" Tungstate	4, 37	" Malate	10, 219
" Uranate	4, 183	and Magnesia, Arse-	
" Urate	10, 467	mate	4, 307
" Uroxamate	10, 478	and Magnesia, Borate	3, 245
" Usnate	17, 50	and Magnesia, Car-	
" Valerate	11, 30	bonate	3, 214
" Vanadates	4, 97	and Magnesia, Hypo-	
" Vanadite	4, 96	Sulphate	3, 247
" Xanthate	8, 451	and Magnesia, Meta-	
" and Acetone, with		phosphate	3, 247
" tannic acid	15, 472	and Magnesia, Nitrate	3, 218
" and Alumina, Carbon-		and Magnesia, Ox-	
ate of	3, 318	alate	9, 132

Ammonia and Magnesia, Phosphate ..	3, 254	Ammonia and Osmium-sesquioxide, Nitrate ..	6, 416
„ and Magnesia, Phosphate ..	3, 215	„ and Osmium-sesquioxide, Sulphate ..	6, 415
„ and Magnesia, Sulphate ..	3, 211	„ and Palladium Oxide, Nitrate ...	6, 353
„ and Magnesia, Sulphate ..	3, 217	„ and Platinum Oxide, Sulphite ..	6, 298
„ and Manganic Oxide, Sulphate ..	4, 233	„ and Potash, Citrate ..	11, 416
„ and Manganous Oxide, Arseniate ..	4, 315	„ and Potash, Oxalate ? ..	9, 126
„ and Manganous Oxide, Carbonate ..	4, 231	„ and Potash, Pyrophosphate ..	3, 71
„ and Manganous Oxide, Hydrochloride ..	4, 233	„ and Potash, Racemate ..	10, 350
„ and Manganous Oxide, Phosphate ..	4, 231	„ and Potash, Sulphate ..	3, 71
„ and Manganous Oxide, Sulphate ..	4, 233	„ and Potash, Tartrate ..	10, 280
„ and Mercuric Oxide, Acetate ..	8, 332	„ and Potash, Tungstate ..	4, 40
„ and Mercuric Oxide, Hydrofluide ..	6, 91	„ and Silver-oxide, Cyanate	9, 457
„ and Mercuric Oxide, Hyposulphite ..	6, 78	„ and Silver-oxide, Hyposulphite ..	6, 173
„ and Mercuric Oxide, Sulphate ..	6, 80	„ and Silver-oxide, Sulphite ..	6, 174
„ and Mercuric Oxide, Tungstate ..	6, 111	„ and Soda, Antitartarate ..	10, 367
„ and Mercurous Oxide, Acetate ..	8, 332	„ and Soda, Arsenate ..	6, 298
„ and Mercurous Oxide, Nitrate ..	6, 91	„ and Soda, Citrate ..	11, 448
„ and Molybdic Oxide, Carbonate	4, 68	„ and Soda, Phosphate ..	3, 118
„ and Molybdic Oxide, Hydrofluide ..	4, 69	„ and Soda, Pyrophosphate ..	3, 118
„ and Molybdic Oxide, Tungstate ...	4, 79	„ Soda, and Manganous Oxide, Pyrophosphate ..	4, 240
„ and Molybdous Oxide, Carbonate ..	4, 68	„ and Soda, Racemate ..	10, 351
„ and Molybdous Oxide, Hydrofluide ..	4, 69	„ and Soda, Sulphate ..	3, 119
„ and Molybdous Oxide, Hydrochloride ..	4, 69	„ and Soda, Tartrate....	10, 282
„ and Molybdous Oxide, Phosphate ..	4, 68	„ and Stannic Oxide, Nitrate ...	5, 95
„ and Nickel - oxide, Carbonate ..	5, 379	„ and Thorina, Carbonate ...	3, 335
„ and Nickel - oxide, Hydrosulphate ..	5, 380	„ and Titanic Oxide, Carbonate ..	3, 480
„ and Nickel - oxide, Phosphate ..	5, 380	„ and Uranic Oxide, Acetate ...	8, 307
„ and Nickel - oxide, Racemate ..	10, 359	„ and Uranic Oxide, Hydrochlorate ..	4, 186
„ and Nickel - oxide, Sulphate ..	5, 381	„ and Uranic Oxide, Sulphate ...	4, 185
„ and Nitric Oxide, Sulphite	2, 492	„ and Uranous Oxide, Carbonate ..	4, 184
		„ and Uranous Oxide, Chloride ..	4, 186
		„ and Vanadic Oxide, Carbonate ..	4, 98
		„ and Vanadic Oxide, basic Hydrobromate ..	4, 98

INDEX

Ammonia and Zinc-oxide, Carbonate	5, 36	Ammonio-chloride of Cyanogen	8, 145
„ and Zinc-oxide, Metaphosphate	5, 37	„ „ Iridium	6, 381
„ and Zinc-oxide, Molybdate	5, 48	„ „ Iron	5, 262
„ and Zinc-oxide, Phosphate	5, 36	„ „ Lead	5, 159
„ and Zinc-oxide, Pyrophosphate	5, 37	„ „ Mercury	6, 83
„ and Zinc-oxide, Sulphate	5, 39	„ „ Nickel	5, 383
„ Ferrous Oxide and Zinc-oxide, Sulphate of	5, 314	„ „ Palladium	6, 351
„ and Zirconia, Carbonate of	3, 347	„ „ Phosphorus	2, 481
„ and Zirconia, Sulphate of	3, 347	„ „ Platinum	6, 305
„ separation of Ethylamine from	13, 480	„ „ Rhodium	6, 364
„ sources of	2, 417	„ „ Silicon	3, 368
„ theories relating to	2, 428	„ „ Silver	6, 176
Ammoniacal Turpetum	6, 79	„ „ Strontium	3, 180
Ammonias, compound, formation of	7, 179	„ „ Sulphur	2, 483—487
Ammonides	7, 23	„ „ Sulphur with ammonio-sulphide of nitrogen	2, 493
Ammonio-antimonious Antitartarate	10, 368	„ „ Tin	5, 93
„ „ Oxalate	9, 148; 13, 523	„ „ Titanium	3, 483
„ „ Tartarate	10, 298	„ „ Uranium	4, 186
Ammonio-argentic Benzosulphophenamidate	12, 157	„ „ Zinc	5, 41
„ „ Bisuccinamidate	10, 116	„ „ Zirconium	3, 317
Ammonio-azaphosphate, Ferric	5, 261	Ammonio-chlorobromide of Platinum	6, 306
Ammonio-bromate of Cadmium	5, 63	Ammonio-chloroplatinous Oxalate	9, 170
„ „ Nickel	5, 383	Ammonio-chromic Tartrate	10, 294
„ „ Zinc	5, 40	Ammonio-cinnamate of Barium	13, 275
Ammonio-bromide of Cadmium	5, 62	Ammonio-ertiate of Lead	10, 456
Ammonio-bromides of Cobalt	5, 310	Ammonio-cobaltic Oxalate	9, 162
„ „ Copper	5, 152	„ „ Cyanide of Copper	8, 11
Ammonio-bromide of Cyanogen	8, 139	„ „ Cyanide of Nickel	7, 501
„ „ Mercury	6, 82	„ „ Cyanide of Silver	8, 32
„ „ Nickel	5, 382	Ammonio-cobaltoso-cobaltic Oxalate	9, 163
„ „ Phosphorus	2, 470	Ammonio-cobaltous Oxalate	9, 162
„ „ Silver	6, 171	Ammonio-cupric Fulminate	10, 561
„ „ Strontium	3, 180	„ „ Mellitate	10, 11
„ „ Zinc	5, 40	„ „ Oxalate	9, 165; 10, 535
Ammonio-cadmic Oxalate	10, 533	Ammonio-cyanides of Copper	8, 3, 10, 505; 12, 497
Ammonio-carbonate of Platinous Oxide	6, 298	Ammonio-cyanide of Gold	8, 37
Ammonio-chlorides of Antimony	4, 373	„ „ Platinum	8, 45
Ammonio-chloride of Arsenic	4, 289	„ „ Silver	8, 29
„ „ Bismuth	4, 444	Ammonio-ferric Citrate	10, 358; 11, 457
„ „ Cadmium	5, 63	„ „ Oxalate	9, 158
„ „ Cobalt	5, 342	„ „ Racemate	10, 358
„ chlorides Copper	5, 453	Ammonio-ferricyanide of Nickel	7, 500
		Ammonio-ferrocyanide of Copper	8, 9
		„ „ Mercury	8, 24
		„ „ Nickel	7, 501
		Ammonio-fluoride of Arsenic	4, 290
		„ „ Boron	2, 439
		„ „ Silicon	3, 368
		Ammonio-gallates of Mercury	12, 411

Ammonio-hyposulphate of Cadmium	5, 61	Ammonio-sulphide of Nitrogen with Ammonio-chloride of Sulphur	2, 493
„ „ Nickel	5, 320	Ammonio-sulphocyanide of Cadmium	8, 87
„ „ Zinc	5, 37	„ „ Cobalt	8, 89
Ammonio-hyposulphite of Nickel	5, 380	„ „ Nickel	8, 90
„ „ Zinc	5, 37	„ „ Zinc	8, 86
Ammonio-iodate of Zinc	5, 10	Ammonio-uranic Oxalate	9, 115
Ammonio-iodide of Bismuth	4, 111	Ammonio-uranous Oxalate	9, 144
„ Cadmium	5, 62	Ammonium	2, 428
„ Cobalt	5, 310	„ Amalgam	6, 67
„ Copper	5, 450	„ Azidecyanide	8, 38
„ Cyanogen	8, 138	„ Aurocyanide	8, 37
„ Lead	5, 159	„ Bromide	2, 469
„ Mercury	6, 80	„ Bromo-ferrocyanide	7, 451
„ Nickel	5, 381	„ Chloride	2, 478
„ Palladium	6, 350	„ Chloride of, with Bicyanide of Platinum	8, 47
„ Platinum	6, 299	„ Chloride of, with Cyanide of Mercury	8, 17
„ Silver	6, 175	„ Chloride of, with Urea	13, 404
„ Tin	5, 93	„ Chloriridate	6, 382
„ Zinc	5, 10	„ Chloro-ferrocyanide	7, 451
Ammonio-magnesian Oxalates	9, 158	„ Chloromercurate	6, 84
Ammonio-maleate of Copper	8, 159	„ Chloropalladate	6, 353
Ammonio-manganous Oxalate	9, 147, 13, 521	„ Chloropalladite	6, 352
Ammonio-mercuric Oxalate	13, 528	„ Chloroplatinate	6, 307
Ammonio-mercuric and Ammonio-mercurous Benzoates	12, 44	„ Chloroplatinite	6, 307
„ „ Camphorates	14, 462	„ Chlororhodate	6, 365
„ „ Citrates	11, 460	„ Chlorostannate	5, 94
„ „ Suberates	13, 212	„ Chlorostannite	5, 94
„ „ Tartrates	10, 323	„ Chlorotellurate	4, 415
Ammonio-nickel Oxalate	9, 161	„ Chlorotellurite	4, 415
Ammonio-nitrate of Platmic oxide ?	6, 311	„ Cobaltidecyanide	7, 193
„ Platmic oxychloride	6, 311	„ Cuprocyanide	8, 3
„ „ Platinous oxide	6, 310	„ Cyanide	7, 410
„ „ Silver-oxide	6, 177	„ Ferricyanide	7, 452
Ammonio-oxalate of Silver-oxide	13, 529	„ Ferrocyanide	7, 450
Ammonio-oxide of Iridium	6, 381	„ Fluoride	2, 488
„ „ Mercury	6, 77	„ Fluoplatinate	6, 310
„ „ Osmium	6, 415	„ Hydrothiosulphocyanide	8, 99
„ „ Platinum	6, 296	„ Iodide	2, 468
Ammonio-oxyplatinous Oxalate	9, 170	„ Iodoplatinate	6, 300
Ammonio-palladious Oxalate	9, 171	„ Iodostannite	5, 93
Ammonio-phosphate of Platinic oxychloride	6, 309	„ Iodotellurate	4, 415
Ammonio-stannous Oxalate	9, 153	„ Isatide	13, 53
Ammonio-sulphate of Cadmium	5, 62	„ Nitroprusside	8, 130
„ „ Cobalt	5, 339	„ Oxide, chrysindide of	12, 15
„ „ Copper	5, 418	„ Periodide	2, 468
„ „ Manganese	4, 232	„ Platimdecyanide	8, 47
„ „ Nickel	5, 380	„ Platinocyanide	8, 46, 10, 566
„ „ Platinum	6, 298	„ Platino-platimdecyanide	8, 46
„ „ Platmic oxychloride	6, 310—318	Ammonium-bases, decomposition of, by heat	7, 180
„ „ Silver	6, 174	Ammonium-salt of Pseudosulphocyanogen	8, 112
Ammonio-sulphides of Arsenic	4, 288		

Ammonium Selenide	2, 464	Ammonium and Silicium, Fluo-	
" Selenocyanide	8, 122	ride	3, 368
" Sulphantimonate	6, 372	" and Silver, Chloride	6, 176
" Sulpharsenates	4, 289	" and Silver, Chloro-	
" Sulpharsenite	4, 288	sate	13, 74
" Sulphides	2, 451	" and Sodium, Sulphar-	
" Sulphocyanide	8, 76	senate	4, 298
" Sulphosinapate	10, 34	" and Tantalum, Fluo-	
" Sulphomolybdates	4, 48	ride	4, 9
" Sulphoplatinate	6, 298	" and Titanium, Chlo-	
" Sulphotungstate	4, 38	ride	3, 484
" Sulphovanadate	4, 98	" and Titanium, Fluo-	
" Sulphovanadite	4, 98	ride	3, 484
" Sulphostannate	5, 93	" and Tungsten, Fluo-	
" Thiocyanide	8, 114	ride	4, 38
" and Bismuth, Chloride	4, 444	" and Vanadium, Chlo-	
" and Bismuth, Oxalate	13, 524	ride	4, 98
" and Cadmium, Chlo-		and Zinc, Chloride	5, 42
ride	5, 63	" and Zinc, Cyanide	7, 423
" and Cobalt, Fluoride	5, 342	" and Zinc, Iodide	5, 40
" and Copper, Chlorides	5, 453	" and Zinc, Malate	10, 222
" {and Copper, Fulmi-		" -theory of Berzelius	2, 428
nate	9, 300	Amniotic acid	10, 260
" and Copper, Styph-		Amorphous	1, 102—108
nate	11, 235	" Ampere's theory of	1, 117
" and Gold, Chloride	6, 225	" difference of proper-	
" and Gold, Iodide	6, 225	ties resulting from	1, 102
" and Hydrogen, Sele-		" Fuchs's, theory of	1, 103
nide	2, 464	Amorphous bodies	1, 8
" and Hydrogen, Sul-		" bodies, method of	
phide	2, 452	producing	1, 103
" and Iodine, Chlo-		" and crystalline, sub-	
ride	2, 487	stances, both	1, 184
" and Iridium, Chlo-		" Phosphorus	2, 108
rides	6, 382	" Quinine (Winck-	
" and Iron, Chlorides	5, 263	ler's)	17, 305
" and Lead, Chloride	5, 160	" Sulphide of Mercury	6, 25
" and Lead, Iodide	5, 159	Ampelic acid	12, 272
" and Lead, Tartrate	10, 313	Amphibia, phosphorescence of	1, 182
" and Magnesium, Chlo-		Amphibole	3, 405
ride	3, 218	Amphid salts	2, 15
" and Magnesium, Fer-		Amphigite, or Didymite	3, 452
rocyanide	7, 485	Amphodelite	3, 433
" and Magnesium, Sul-		Amygdalate of Ethyl	15, 430
pharsenite	4, 308	Amygdalates, metallic	15, 429
" and Mercury, Bro-		Amygdalin	15, 341, 422
mide	6, 83	" amorphous	15, 424
" and Mercury, Chlo-		" decomposition of, by	
ride	6, 89	emulsion or synap-	
" and Mercury, Iodide	6, 82	tase	7, 98, 389
" and Nickel, Chloride	5, 383	" Dobereiner's, identi-	
" and Nickel, Cyanide	7, 498	cal with Almond-	
" and Nickel, Fluoride	5, 384	legumnn	18, 433
" and Osmium, Chlo-		" Hydrates of	16, 428
rides	6, 416	<i>Amygdalus communis</i> , fatty oil	
" and Potassium, Fer-		from the kernels of	17, 92
rocyanide	10, 503; 12, 496	Amyl	11, 3
" and Ruthenium, Chlo-		" from Boghead Cannel	
ride	6, 401	Coal	18, 386

Amyl Acetate . . .	11, 69	Amylic Alcohol, active and in- active	11, 12
„ Allophanate . . .	11, 71	„ combinations of	11, 17
„ Arachidate . . .	17, 375	„ copulated acids produced by, with Bisulphide of Carbon and Phosphorous Acid	7, 224
„ Benzoate . . .	12, 81	„ decompositions of „	11, 14
„ Bionate . . .	11, 17	„ expansion of, by heat . . .	1, 226—231
„ Bibromacetate . . .	13, 532	„ preparation of	11, 11
„ Bixynsulphocarbonate . . .	11, 62	„ production of, in vinous fermen- tation	15, 276
„ Bisulphide ? . . .	11, 10	„ properties of	11, 13
„ Borate, Tribasic . . .	11, 16	Amylic Ethers . . .	7, 220; 11, 7
„ Bromacetate . . .	12, 531	„ Glycol . . .	13, 557
„ Bromide . . .	11, 42	„ Oxide . . .	11, 7
„ Caproate . . .	11, 119	„ Mercaptan . . .	11, 38
„ Carbolate . . .	12, 272	Amyl-lepidine . . .	14, 122
„ Carbonate . . .	11, 15, 111	Amyl-malates . . .	11, 79
„ Chloride . . .	11, 12	Amyl-nicotino . . .	14, 238
„ Chloroformate . . .	11, 66	„ -œnanthyl Ether . . .	13, 202
„ Cyanide . . .	11, 67	Amylogen . . .	15, 94
„ Cyanide, preparation of Caproic acid from	11, 415	Amyloid . . .	18, 334
„ Cyanurate . . .	11, 71	Amyl-oxalates . . .	11, 73
„ Formate . . .	11, 66	Amyl-palmitic Ether . . .	16, 380
„ Hydrated Oxide . . .	11, 9	Amyl-phloretic Acid . . .	13, 315
„ Hydride . . .	11, 6	Amyl-phosphates . . .	11, 50
„ Iodacetate . . .	13, 531	Amyl-phosphonic Acid . . .	11, 49
„ Iodide . . .	11, 41	Amyl-phosphorous Acid . . .	11, 48
„ Nitrate . . .	11, 61	Amyl-piperidine . . .	11, 124, 15, 17
„ Nitrite . . .	11, 63	Amyl-salicylic Acid . . .	12, 260
„ Oxalate . . .	11, 72	Amyl-strychnine . . .	13, 514
„ Oxide . . .	11, 7	Amyl-sulphates . . .	11, 56—60
„ Palmitate . . .	16, 380	Amyl-sulphites . . .	11, 53
„ Phosphate, Tribasic . . .	11, 527	Amyl-sulphuric Acid . . .	11, 55
„ Phosphate . . .	11, 47	Amyl-sulphurous Acid . . .	11, 50
„ Pinelate . . .	12, 466	Amyl-tartaric Acid . . .	11, 80
„ Salicylate, Neutral . . .	12, 258	Amyl-tartrates . . .	11, 82
„ Silicate, Bibasic . . .	11, 65	Amylmu . . .	15, 73
„ Stearate . . .	17, 123	Amyl-urea . . .	11, 123
„ Sulphide . . .	11, 38	Amyl-urethane . . .	11, 114
„ Sulphocarbonate . . .	11, 60	Amyl-xanthates . . .	11, 61
„ Sulphocyanide . . .	11, 68; 13, 461	Amyl-xanthic Acid . . .	11, 60
„ Terebinate . . .	12, 469	Amym . . .	17, 397
„ Valerate . . .	11, 83	Amyris, Elemu-resin obtained from various species of	17, 413
Amylamine . . .	11, 105	„ Caranna, resin of	17, 404
„ Carbonate . . .	11, 146	„ Katsi, Frankincense ob- tained from . . .	17, 427
„ Chloroplatinate . . .	11, 107	„ tomentosa, Tacamahac resin from . . .	17, 130
„ Hydrochlorate . . .	11, 146	Anacardates . . .	17, 521
„ Sulphate . . .	11, 106	Anacardic Acid . . .	17, 519
Amylamine . . .	11, 330	Anacardum Orientale, fatty oil from the kernels of . . .	17, 93
Amylate of Benzylene . . .	12, 222		
„ Methyl . . .	11, 8		
„ Octyl . . .	13, 202		
Amylbenzolic Ether . . .	12, 222		
Amyl-caprylic Ether . . .	13, 202		
Amyl-cetyl Ether . . .	16, 379		
Amylcholine . . .	13, 255		
Amylene . . .	11, 1		
„ Bacetate . . .	13, 558		
„ Hydrate . . .	13, 557		
Amylic Alcohol . . .	11, 9		

- Anachuita-tannic Acid.... .. 15, 511
 " wood, resin of .. 17, 416
 Analysis of organic compounds,
 elementary or ultimate . 7, 86
 Analcides 7, 23
 Analcime 3, 439
 Anatase 3, 474
 Anatomical preparations, preserva-
 tion of .. 7, 117
 Anatto, *see* Annatto
 Anaximander, his theory of
 the four elements . 1, 3
 Anchietine 13, 187
 Anchusin or Anchusic Acid, *see*
 Alkanet-red
 Anchoate of Ethyl . . . 13, 376
 Anchoates, metallic . . 13, 375
 Anchoic Acid 13, 371
 Andalusite 3, 412
 Andesite 3, 439
 Andum 16, 518
 Anemomic Acid . . . 16, 268
 Anemouin 16, 265
 Anethol 14, 191
 " crystallised variety of . 14, 199
 " liquid variety of . 14, 199
 " oils almost wholly com-
 posed of . 14, 195
 " and Quinine ... 17, 292
Anethum Feniculum, volatile oil
 of 14, 192
 Angelate of Orcosclone . . 12, 98
 Angelates, metallic 10, 415
 Angelic Acid 10, 413
 " Ether 10, 417
 Angelica bitter 18, 215
 " oil 14, 357
 " root, wax of . . 18, 158
 " root, preparation of
 valerianic acid from 11, 25
 " root, resin of . 17, 416
 Angelicin 17, 416
Angræcum fragrans, preparation
 of cumarin from .. 13, 322
 Angustura-bark, false, prepara-
 tion of brucine from . 17, 573
 Angustura-bark, hard resin of 17, 416
 " bitter 18, 215, 222
 " oil 14, 357
 Anhydrides 7, 24
 Anhydrides 7, 24
 Anhydride, Abietic .. . 18, 8
 " Acetic 8, 334
 " Aceto-cinnamic .. 13, 293
 " Aceto-cumic .. 14, 156
 " Angelic 10, 416
 " Anisic 13, 241
 " Aniso-eugenic 14, 213
 " Benzo-cinnamic ... 13, 293
 Anhydride, Benzo-cumic . 14, 157
 " Benzo-eugenic ... 14, 211
 " Benzoic 12, 93
 " Benzo-myristic ... 16, 216
 " Benzo-pelargonic 13, 373
 " Benzo-stearic .. 17, 123
 " Butyric 10, 88
 " Camphoric .. 14, 467
 " Caproic 11, 421
 " Caprylic 13, 203
 " Cinnamic 13, 292
 " Citraconic 10, 435
 " Cumic 14, 159
 " Cumino-eugenic ... 14, 213
 " Fumaric 10, 32
 " Lactic 11, 435, 501
 " Myristic 16, 217
 " Nitric 2, 389
 " Nitrocinnamic 13, 302
 " Oenanthro-cumic .. 14, 159
 " Oenanthylc . . . 12, 462
 " Pelargonic ... 13, 373
 " Phthalic 13, 14
 " Pyrotartaric 11, 101
 " Racemic 10, 361
 " Roscellic ... 16, 177
 " Salicylic 12, 282
 " Stearic 17, 131
 " Succinic 10, 135
 " Sulphuric ... 2, 176
 " Tartaric 10, 336
 " Trichlorophthalic 13, 18
 " Tolu-eugenic . . 14, 212
 " Valeric 11, 37
 Anhydrides 7, 24
 " of Organic Acids ... 7, 193
 Anhydrite 3, 200
 Anilamide 12, 333
 Anilate of Methylene .. 12, 311
 Aniline 11, 216
 " decompositions ... 11, 250
 " formation .. 11, 202, 246
 " preparation .. 11, 247
 " properties of ... 11, 249
 " reaction with Thiacetic
 acid 13, 450
 " reaction with Zinc-ethyl 13, 504
 Aniline Salts 11, 256
 " Acetate 11, 262
 " Butyrate 11, 263
 " Chloroaurate 11, 261
 " Chloroplatinate 11, 261
 " Citranilate 11, 467
 " Citrate 11, 462
 " Citrobilanilate 11, 469
 " with Fluoride of Silicon 11, 259
 " Gallate 12, 409
 " Hydrated 11, 255
 " Hydriodate 11, 258

Aniline Hydrobromate ..	11, 258	Aniline, preparation of	11, 265, 266
" Hydrochlorate...	11, 259	Aniline, properties of .	11, 273
" Mellitate	11, 263	Anions	1, 431, 434
" Mercury-compounds of	11, 261	Anisate of Ethyl ...	13, 130
" Metaphosphate	11, 257	" Eugenyl	14, 213
" Nitrate . .	11, 259	" Methyl ..	13, 129
" Oxalate . .	11, 262	Anisates, metallic	13, 126, 584
" Oxamate ...	11, 312	Anise-camphor... ..	14, 197
" Phosphates .	11, 256	Anisene	13, 119
" Pierate ...	11, 263	" Hydrochlorate ?	13, 131
" Pyrophosphate . .	11, 257	Anise-oil . .	14, 195
" Succinate ..	11, 263	" steareptene of	14, 191
" Sulphanilate .	11, 298	Anisylhydramide	13, 145
" Sulphate	11, 258	Anisic Acid ..	13, 123
" with Sulphate of Copper	11, 260	" Anhydride	13, 241
" Sulphate	11, 258	Anisidine	12, 266
" Sulphobenzolate	11, 263	Anisine	13, 116
" Sulphocyanate ..	11, 262	Aniso-eugenic Anhydride	14, 213
" Tartarate	11, 263	Anisone Acid	14, 503
" Urea	11, 303, 12, 166	Anisoin	14, 197
" Violet, occurrence of in the Sea-owl or Lumpfish (<i>Aplysia depulans</i>) ..	18, 421	Anisol	12, 261
Aniloyanamic Acid	11, 301	Aniso-mtramisic Acid .	13, 110
Animal Acids	7, 197	Aniso-salicyl ..	13, 242
" body, classification of constituents of, according to Laebig	18, 255	Anisuric Acid	13, 241
" body, electric currents in	1, 336	Anisyl Bromide	13, 132
" earth	3, 192	" Chloride	13, 134
" membranes, diffusion of gases through	1, 25	" Hydride	13, 120
" membranes, fermentation of sugar in contact with ..	7, 99	" Phenyl and Hydrogen, nitride of	13, 145
" organism, alleged existence of arsenic in	4, 250	Anisylous Acid .	13, 120
" substances, occurrence of manganese in	4, 195	Antitrochmic Acid	17, 474
" substances, preservation of	7, 100	Annatto, effect of sunshine on the colour of	7, 95
" substances, products of dry distillation of	18, 256	" red, resinous	16, 520
" substances, putrefaction of	7, 97	Anode	1, 431
Animals, living, phosphorescence of ..	1, 181	Anorthite	3, 432
" phenomena exhibited by the solid parts of, during putrefaction...	7, 103	Anoxolum	18, 254
" putrefying, phosphorescence of	1, 189	Anthemine	18, 187
Anisalcohol . .	13, 119	<i>Anthemis nobilis</i> , bitter from the seeds of	18, 215
Anisaldehyde	13, 120	" <i>nobilis</i> , essential oil of ..	10, 412
Anisamide	13, 143	" <i>pyrethrum</i> , soft resin of ..	17, 417
Anisamide	13, 145	Anthocyan	16, 522
Animé Oil	14, 358	Anthophyllite	3, 406
		Anthosiderite	5, 283
		Anthoxanthum	16, 513
		<i>Anthoranthum adonatum</i> , preparation of cumarin from	13, 322
		Anthracene	16, 165
		Anthracenuse	16, 169
		Anthracene	2, 83
		Anthracoxene	17, 433
		Anthranilic Acid	12, 326
		Anthropic Acid	16, 365
		Antiar Upas, wax of	18, 158
		Antiarum	16, 217
		Antiar-resin	16, 218

Antichloristic Theory	2, 356	Antimonite of Cupric oxide	5, 475
Antigonite	3, 397	„ Ferrous oxide	5, 310
Antimonial Amalgam	6, 120	„ Potash	4, 375
„ Blende	4, 359	„ Lime	4, 389
„ Copper-glance	5, 476	„ Soda	4, 382
„ Nickel	5, 372	„ Stibethyl	9, 81
„ Phosphorus	1, 191	Antimonites	4, 380
„ Silver-blende	6, 190	<i>Antimonium cridum</i>	4, 337
„ Saffron	4, 359	„ <i>draphoreticum ablu-</i> <i>tum</i>	4, 377
Antimonate of Ammonia	4, 372	Antimonuretted Hydrogen	4, 333
„ Baryta	4, 338	Antimony	4, 316
„ Cobalt-oxide	5, 353	„ Alloys	4, 392
„ Cupric oxide	5, 475	„ Bismuth and Tin,	
„ Ferrous oxide	5, 310	alloys of	5, 104
„ Lead-oxide	5, 175	„ and Calcium, alloy	4, 389
„ Lime	4, 389	„ and Gold, alloy	6, 238
„ Manganous oxide	4, 391	„ and Lead, alloy	5, 174
„ Mercuric oxide	6, 120	„ „ amalgam	6, 127
„ Mercurous oxide	6, 120	„ and Magnesium, alloy	4, 390
„ Nickel-oxide	5, 393	„ and Potassium, alloy	4, 374
„ Potash	4, 376	„ Potassium and Silver,	
„ Potash with Sul-		alloys of	6, 192
phantimonate		„ and Silicon, alloy	4, 390
of Potassium	4, 381	„ Silver and Lead, sul-	
„ Silver-oxide	6, 189	phide of	6, 195
„ Soda	4, 382	„ and Strontium, alloy	4, 389
„ Stannic oxide	5, 103	„ Ammonio-pentachlo-	
„ Uranous oxide	4, 391	ride	4, 373
„ Zinc oxide	5, 50	„ Ammonio-terchloride	4, 373
Antimonates	4, 332	„ Arsenide	4, 391
Antimonie Acid	4, 330	„ and Potassium, arse-	
„ Arsenate of	4, 392	nide of	4, 392
„ with Quinine	17, 284	„ -bases, organic	7, 188
Antimonide of Bismuth	4, 439	„ Bromide	4, 364
„ Cobalt	5, 353	„ Chlorides	4, 365
„ Copper	5, 474	„ and Cyanogen, chlo-	
„ Copper and Po-		ride of	8, 116
tassium	5, 176	„ and Potassium, chlo-	
„ Copper and Lead	5, 487	ride of	4, 381
„ Gold	6, 238	„ and Sodium, chloride	
„ Hydrogen, solid?	4, 332	of	4, 387
„ Iron	5, 310	„ conjugated ethyl-	
„ Iron and Potas-		compound contain-	
sium	5, 312	ing	9, 79
„ Lead	5, 174	„ Croconate	10, 393
„ Lead and Tin	5, 180	„ with Fluxes	4, 383
„ Nickel	5, 392	„ Fluorides	4, 371
„ Palladium	6, 356	„ Glass of	4, 360
„ Platinum	6, 333	„ Golden Sulphuret of	4, 354
„ Potassium	4, 374	„ Grey Sulphide of	4, 337
„ Silver	6, 189	„ and Hydrogen, com-	
„ Sodium	4, 382	pounds of	4, 322
„ Tin	5, 103	„ Iodide	4, 362
„ Zinc	5, 50	„ Iodide of, with Sul-	
Antimonio-uranic Tartarate	10, 309	phide of Antimony	4, 364
Antimonous Acid	4, 329	„ Iodosulphide	4, 363
Antimonite of Ammonia	4, 372	„ Liver of	4, 355, 378, 383
„ Baryta	4, 388	„ Oxides	4, 323
„ Cobalt-oxide	5, 353		

Antimony	Oxychloride .	4, 367	Antimony	and Sodium, tartrate	10, 307
"	Oxyselenide	4, 362	"	and Strontium, tartrate	10, 307
"	Oxysulphide .	4, 359	"	and Strychnine, tartrate	17, 504
"	Oxalate ...	13, 523	"	and Uranium, tartrate of	10, 308
"	Pentachloride	4, 369	"	Salts, double, containing organic acids	7, 210
"	Pentachloride, compound of, with Bichloride of Sulphur	4, 370	"	Selenide ...	4, 362
"	Pentachloride, compound of, with Cyanide of Ethyl	13, 457	"	spots, and Arsenic spots, distinction between	4, 269
"	Pentachloride, compound of, with Cyanide of Methyl	13, 412	"	Suboxide	4, 323
"	Pentachloride, Hydrocyanate of	8, 149	"	Sulpharseniate	4, 392
"	Pentachloride with Phosphuretted Hydrogen	4, 370	"	Sulphides	4, 336
"	Pentachloride with Tersulphide of Antimony	4, 370	"	Copper, and Lead, sulphide of	5, 487
"	Pentasilphide	4, 354	"	Sulpharsenite	4, 392
"	Phosphide .	4, 335	"	Sulphocacodylate	9, 337
Antimony-salts	....	4, 327	"	Terbromide	4, 364
"	Arsenate ...	4, 392	"	Terechloride..	4, 365
"	Arsenite ..	4, 392	"	" action of, on glycol	13, 424
"	Chromate	4, 390	"	Terechloride, action of oxalic acid on	13, 515
"	Cinnamate ...	13, 276	"	Terechloride of, in combination with cumarin?	13, 321
"	Molybdate .	4, 390	"	Terechloride, solubility of, in alcohol	8, 270
"	Nitrate	4, 371	"	Terechloride of, with Sal-ammoniac	4, 374
"	Oxalate .	9, 148	"	Terfluoride	4, 371
"	Phosphate .	4, 336	"	Teriodide .	4, 362
"	Phosphite ...	4, 336	"	Terioxide	4, 324
"	Pyrophosphate	4, 337	"	Terioxide, with Ammonia	4, 371
"	Sulphate ...	4, 360	"	Terioxide, with Cuprous Oxide	5, 474
"	Sulphite ..	4, 360	"	Terioxide, fused, electrolysis of	1, 459
"	Tannate ...	15, 466	"	Terioxide, hydriodate of	4, 363
"	Tartrate .	10, 297	"	Terioxide, hydrobromate of	4, 365
"	Vanadate ...	4, 390	"	Terioxide, hydrochlorate of	4, 363
"	and Ammonium, tartrate	10, 298	"	Terioxide and Silica, hydrofluante of	4, 390
"	and Barium, tartrate	10, 307	"	Terioxide with Potash	4, 375
"	and Berberine, tartrate	17, 196	"	Terioxide with Soda	4, 382
"	and Brucine, tartrate	17, 584	"	Tersulphide	4, 354
"	and Calcium, tartrate	10, 308	"	Tersulphide, amorphous	4, 340
"	and Cinchonine, tartrate	17, 218, 610	"	Tersulphide, crystallised	4, 337
"	and Lead, tartrate	10, 313			
"	and Lithium, tartrate	10, 307			
"	and Potassium, racemate	10, 356			
"	and Potassium, tartrate	10, 299			
"	and Quinidine, tartrate	17, 302			

- Antimony, Tersulphide of, with Iodide of Antimony 4, 361
 „ Tersulphide of, with Pentachloride of Antimony . 4, 370
 „ Tetrafluoride and Pentachloride 4, 371
 „ Totiasulphide ? 4, 351
 Antitartaric Acid 10, 365
 Antitartarate of Ammonia 10, 367
 „ Ammono-antimonic 10, 368
 „ of Brucine 17, 581
 „ Cinchonine 17, 217
 „ Lime 10, 368
 „ Potassio-antimonic 10, 368
 „ of Quinine 17, 291
 „ Soda and Ammonia ... 10, 367
 „ Soda and Potash 10, 367
 „ Strychnine 17, 508
 Ant-oil, fatty .. 17, 93
 Ants, Oil of .. 14, 358
 Antiphlogistic Theory 1, 5, 2, 35
 Antiputrescent substances . 7, 100
 Antiracrin .. 18, 215
 Antarin ... 18, 215
 Antiseptics . 7, 100
 Ants, oil of, artificial 10, 370
 „ preparation of formic acid from .. 7, 271
 Apatite ... 3, 219
 Apelaic Acid, *see* Azelaic Acid
 Aphides, fats of .. 16, 398
 Aphrodæscin 18, 41
 Apin 15, 341, 16, 94
Aplysia deflans, colouring matter of . 18, 421
 Apocrenic acid 15, 158, 17, 469
 „ (Mulder's) .. 17, 473
 Apoglucic Acid .. 13, 365
 Apophyllates . 13, 155
 Apophyllite 13, 151
 Apophyllo-nitrate of Silver 13, 156
 Apophyllite .. 3, 393
 Aporetin ... 16, 176
 Aporicinic Acid, *see* Pyroricinic Acid
 Apparatus for condensation of vapours ... 1, 288
 „ description of plate of . 1, 13
 „ for measuring the circular polarisation of organic liquids . 7, 65
 Appert's method of preserving meat, &c. .. 7, 100, 116
 Apples, preparation of malic acid from 10, 211
 „ diseased, ferment-oil of 14, 408
 Apple-tree, preparation of phlorizin from the root-bark of 16, 11
 „ wax from the root of 18, 161
 Apyrnie 18, 187
 Apyrite . 3, 454
Aqua phagadæmica 6, 9
 „ *regia* .. 2, 476
 Aqueous fusion of Salts 2, 64
 „ solutions 2, 65
 „ solutions, maximum density of 1, 225
 „ solutions, tables of boiling points of 1, 269, 278
Aquila mitigata, alba, caelestis, or mercuria 6, 45
 Arabates . 15, 202
 Arabians, chemical knowledge of 1, 3
 Arabic Acid . 15, 194
 Arachamide . 17, 372
 Arachidate of Amyl ... 17, 375
 „ Ethyl ... 17, 373
 „ Methyl . 17, 373
 Arachidates, metallic .. 17, 371
 Arachidic Acid, 17, 370
 Arachis .. 17, 373, 374
Arachis hypogæa, oil of 16, 317
Arachnida, phosphorescence of 1, 182
 Arbol a-Brea resin . 17, 397
 Arbutin . 15, 342, 419
Arbutus Uva Ursi, ursone in the leaves of .. 17, 361
Arcanum duplicatum . 3, 39
Arcanum Tartari . 8, 297
 Archil, effect of sunshine on the colour of 7, 95
 „ preparation of 12, 361
Araucaria brasiliensis, resin of 18, 19
 Araucaric Acid 18, 20
Arctostaphylos Uva Ursi, ercolum in . 16, 29
Arctostaphylos Uva Ursi, resin from . 15, 421
 Areometer scales, relative values of .. 1, 10
 Arethase . 9, 316
 Arfvedsonite . 5, 280
Argemone mexicana, oil from seeds of 17, 93
 Argene, Sulphide of .. 9, 394
 Argentammonium, Isatide of 13, 54
 Argentan . 5, 497
 Argentate of Ammonia . 6, 172
 „ Potash .. 6, 178
 Argentie Salts, *see* Silver Salts.
 Argentiferous Lead, cupellation of .. 6, 133
 „ Lead, treatment of, by fractional crystallisation :

<i>Pattinson's process</i> ..	6, 133	Arsenethylum	9, 78
Argentiferous Gold ..	6, 217	Arsenethyls ..	9, 69
Argento-benzo-napthionamide	14, 507	Arsenate of Alumina ..	4, 310
„ -antimonie Tartrate ..	10, 326	„ Ammonia ..	4, 287
„ -bromate of Ammonia ..	6, 175	„ Antimonie Acid ..	4, 392
„ -chromate of Ammonia ..	6, 184	„ Antimonie oxide ..	4, 392
„ -chronic Oxalate ..	9, 169	„ Baryta ..	4, 300
„ -chromic Tartrate ..	10, 326	„ Bismuth-oxide ..	4, 419
Argentocyanide of Cadmium ..	8, 31	„ Casein	18, 314
„ Calcium ..	8, 31	„ Cerium	4, 308
„ Cobalt ..	8, 32	„ Chromic oxide ..	4, 312
„ Copper P ..	8, 33	„ Cinchonine ..	17, 211
„ Iron ..	8, 31	„ Cobalt-oxide ..	5, 349
„ Lead ..	8, 31	„ Cupric oxide ..	5, 471
„ Manganese ..	8, 31	„ Ferric oxide ..	5, 307
„ Mercury ..	8, 33	„ Ferric oxide and	
„ Nickel ..	8, 33	„ Lime ..	5, 309
„ Potassium ..	8, 29	„ Ferri-ferrous oxide ..	5, 306
„ Zinc ..	8, 31	„ Ferrous oxide	5, 305
Argento-hyposulphate of Ammonia ..	6, 174	„ Glucina ..	4, 310
„ -napthionamide ..	14, 507	„ Iridic oxide ..	6, 391
„ -nitrate of Ammonia	6, 177	„ Lead-oxide ..	5, 173
„ -nitrite of Ammonia ..	6, 176	„ Lead-oxide with	
„ -perchlorate of Ammonia ..	6, 176	„ chloride of Lead ..	5, 174
„ -prussic Acid ..	8, 28	„ Lime and Ammonia ..	4, 306
„ -seleniate of Ammonia ..	6, 175	„ Lime and Magnesia ..	4, 308
„ -sulphate of Ammonia ..	6, 174	„ Magnesia ..	4, 307
Argentous Citrate ..	11, 461	„ Magnesia and Am-	
<i>Argentum</i> ..	6, 132	„ monia ..	4, 307
<i>Argentum vivum</i> ..	6, 1	„ Manganous oxide ..	4, 314
Argol ..	10, 276	„ Manganous oxide	
Argyraseetin	18, 34	„ and Ammonia ..	4, 315
Argyrasein ..	18, 38	„ Mercurous oxide ..	6, 117
<i>Argyritis</i>	5, 109	„ Molybdic acid ..	4, 311
Aribine ..	17, 561	„ Molybdic oxide ..	4, 311
Aricine ..	17, 568	„ Molybdous oxide ..	4, 311
<i>Aristolochia Clematitis</i> , bitter		„ Nickel-oxide ..	5, 390
principle of ..	18, 215	„ Palladious oxide	6, 356
<i>Aristolochia Clematitis</i> , volatile		„ Platonic oxide ..	6, 382
oil of	14, 532	„ Potash ..	4, 291
„ resin ..	18, 216	„ Potash, Electrolysis	
„ wax	18, 158	„ of ..	1, 462
„ yellow ..	18, 216	„ Iodide of Potassium ..	4, 294
Aristotle, his ideas on the		„ Quinine	17, 281, 616
nature of matter ..	1, 3	„ Rhodic oxide? ..	6, 367
<i>Arnica montana</i> , soft resin of ..	17, 417	„ Silica? ..	4, 311
Arnica oil ..	14, 358	„ Silver-oxide ..	6, 186
„ -root, resins of ..	17, 363	„ Soda ..	4, 295
„ -wax ..	18, 158	„ Soda and Ammonia ..	4, 298
„ -yellow....	17, 364	„ Soda and Potash ..	4, 299
Arnica ..	15, 342; 17, 361	„ Stannic oxide P ..	5, 102
Arnold de Villa Nova ..	1, 3	„ Stannous oxide? ..	5, 102
Arquerite	6, 199	„ Strontia ..	4, 302
Arragonite ..	3, 186	„ Strychnine ..	17, 496
Arrow-poison of Guiana ..	17, 592	„ Thoria ..	4, 310
Arrow-root ..	15, 77	„ Titanic oxide ..	4, 311
Arsenbiethyl	9, 72	„ Uranic oxide	4, 313
		„ Uranic oxide and	
		„ Soda ..	4, 313

Arsenate of Uranous oxide ..	4, 313	Arsenic, in common sulphuric acid ..	2, 183
„ Vanadic acid ..	4, 312	Arsenical Amalgam ..	6, 116
„ Vanadic oxide ..	4, 312	Arsenical Iron ..	5, 304
„ Yttria ...	4, 309	„ Phosphorus ..	1, 194
„ Zinc-oxide ...	5, 49	„ Pyrites ..	5, 304
„ Zinc - oxide with Ammonia ..	5, 50	„ Sal-ammoniac ..	4, 287
„ Zirconia	4, 310	„ Silver-blende ..	6, 188
Arsenates ..	4, 262	Arsenide of Aluminum ..	4, 310
„ reaction of, with Tannic Acid ..	15, 466	„ Antimony and Potassium ..	4, 392
Arsenic ..	4, 248	„ Bismuth ..	4, 449
„ Acid ..	4, 262	„ Cobalt ..	5, 318
„ Acid, action of, on alcohol ..	18, 243	„ Cobalt with Sulphide of Cobalt ..	5, 351
„ Acid and Potash, tartrate of ..	10, 296	„ Copper ..	5, 470
„ allotropic state of ..	4, 251	„ Glucinum ..	4, 310
„ Alloys ..	4, 316	„ Gold ..	6, 238
„ Ammonio-chloride ..	4, 289	„ Hydrogen, solid ..	4, 264
„ Ammonio-fluoride ..	4, 290	„ Iron ..	5, 303
„ Ammonio-penta-sulphide ..	4, 289	„ Lead ..	5, 172
„ Ammonio-tersulphide ..	4, 288	„ Lead and Potassium ..	5, 174
„ Bromide	4, 283	„ Manganese ..	4, 314
„ in cast-iron ..	5, 215	„ Nickel ..	5, 388
„ Chlorides ..	4, 205	„ Palladium ..	6, 356
„ Chlorides, solution of, in volatile oils ..	7, 168	„ Platinum ..	6, 332
„ compounds, solubility of in alcohol	8, 270	„ Potassium ..	4, 290
„ detection of, in sulphur ..	2, 156	„ Propyl ..	9, 413
„ Ether	8, 171	„ Rhodium ..	6, 367
„ Ethyl-bases containing Fluoride	4, 286	„ Silver ..	6, 186
„ Hydriodate of Terriodide ..	4, 283	„ Sodium ..	4, 294
„ and Hydrogen, compound of ..	4, 264	„ Tin ..	5, 102
„ Iodides ..	4, 281	„ Zinc ..	5, 49
„ Marsh's test for ..	4, 268	Arsenides, metallic, reduction of silver chloride by	6, 428
„ Methyl-bases containing ..	13, 492	Arsenosiderite ..	5, 309
„ Octodeca-sulphide ..	4, 279	Arsenio-sulphate of Ferric oxide ..	5, 308
„ Oxides ..	4, 252	Arsenous Acid ..	4, 253
„ Persulphide ..	4, 280	„ aqueous solution ..	4, 257
„ Phosphide ..	4, 271	„ compounds of, with other acids ..	4, 259
„ in commercial phosphorus	2, 104	„ Hydro-sulphate of ..	4, 274
„ ruby ..	4, 271	„ Oxalate of? ..	9, 147
„ Selenide ...	4, 280	„ Phosphate of ..	4, 271
„ spots and Antimony spots, distinction between ..	4, 269	„ reaction of, with albumin ..	18, 296
„ Sub-oxide	4, 252	„ Sulphate of	4, 280
„ Sub-sulphide	4, 271	„ Tartrate of? ..	10, 296
„ Sulphide ..	4, 277	„ Terhydrochlorate of ..	4, 285
„ and Sulphur, chloride of ..	4, 285	„ and Ammonia, racemate of ..	10, 355
„ Terchloride, expansion of by heat ..	1, 226, 229	„ and Ammonia, Tartrate of	10, 296
„ Terchloride of, with Bichloride of Tin ...	5, 103	„ and Potash, oxalate of	13, 521
		„ and Potash, racemate of	10, 356
		„ and Potash, tartrate of ..	10, 296

Arsenious Acid and Soda, racemate of	10, 356	Asarum Oil	14, 359
„ „ and Soda, tartrate of	10, 296	Asbestos of Koruk	3, 397
„ Bromide	4, 283	„ ordinary	3, 407
„ Chloride	4, 285	„ variegated	3, 395
„ Fluoride	4, 286	Asbolin	15, 159
„ Iodide	4, 281	Asclepione	17, 368
„ Oxide	4, 253	Ash of organic compounds	7, 85
„ Sulphide	4, 273	Ash-tree Bark, preparation of	
Arseniovinic Acid ?	8, 481	Fraxin from	16, 280
Arsenites of Ammonia	4, 287	Asparagine	10, 239
Arsenite of Antimonic Oxide	4, 392	„ with Cadmic oxide	10, 247
„ Baryta	4, 300	„ Cupric oxide	10, 247
„ Bromide of Arsenic	4, 284	„ Hydrate	10, 244
„ Cobalt-oxide	5, 319	„ Hydrochlorate	10, 245
„ Cupric oxide	5, 470	„ with Lead-oxide	10, 247
„ Ferric oxide	5, 304	„ „ Lime	10, 246
„ Ferrous oxide	5, 304	„ „ Mercuric chloride	10, 218
„ Lead-oxide	5, 173	„ „ Mercuric oxide	10, 218
„ Lime	4, 302	„ Nitrate	10, 216
„ Magnesia	4, 307	„ with Nitrate of Silver	10, 218
„ Mercuric oxide	6, 116	„ „ Potash	10, 246
„ Mercurous oxide	6, 116	„ „ Silver-oxide	10, 248
„ Nickel-oxide	5, 390	„ Oxalate	10, 240, 240
„ Potash	4, 291	„ Sulphate	10, 245
„ Silver-oxide	6, 186	„ with Zinc-oxide	10, 247
„ Soda	4, 295	Aspartates	10, 233
„ Strontia	4, 302	Aspen, existence of populin in	
„ Strychnine	17, 495	the leaves and root of the	15, 441
„ Termodide of Arsenic	4, 282	Aspertannic Acid	15, 512
Arsenites	4, 259	<i>Asperula odorata</i> , preparation of benzoic acid from the haulin of	12, 35
„ reaction of, with tannic acid	15, 466	„ <i>odorata</i> , preparation of coumarin from	13, 322
Arseniuretted Hydrogen	4, 264	„ <i>odorata</i> , rubichloric acid in	16, 66
Arsenomethyl	13, 495	„ <i>odorata</i> , tannic acid from	15, 512
Arsenomethylic Acid	13, 496	Asphalt	17, 433
Arsenomethylethylum	9, 352	<i>Aspidium Filix mas</i> , fatty oil from the roots of	17, 93
Arsenomonomethyl	13, 495	„ <i>Filix mas</i> , silicolic acid in the roots of	17, 74
Arsentriethyl	9, 73	„ <i>Filix mas</i> , tannic acids from	15, 496
Arsentrimethyl	9, 351	Assamar, Reichenbach's	15, 248
Arsidogen	9, 315	„ Völkels	15, 350
<i>Artemisia Absinthium</i> , bitter principle of	17, 354	<i>Aster glutinosus</i> , soft resin of the buds of	17, 447
<i>Artemisia Dracunculus</i> , volatile oil of	14, 192	<i>Asterias noctiluca</i> , phosphorescence of	1, 185
Arthanutin, see Cyclamin.		Astringents, estimation of tannic acid in	15, 456
Artichokes, green colouring matter of	17, 12	Aspartate of Cinchonine	17, 216
Artificial bitter of Aloes	12, 3	„ Morphine	16, 435
Artificial Felspar	3, 442	„ Quinine	17, 290
Arvic Acid	17, 474	Aspartates, Metallic	10, 234—238
<i>Asa dulcis</i> , see Benzoin		Aspartic Acid	10, 230
Asafetida	17, 398		
„ preparation of Styphnic acid from	11, 229		
„ „ volatile oil of	17, 1		
Asarabaca-camphor	17, 357		
Asarone	17, 357		

- Asparagus, preparation of Asparagine from 10, 241
 Asparamide 10, 210
 Atakamite 5, 411
 Athamantin 12, 101
 " compound obtained from hydrochlorate of . . . 12, 98
 " Hydrochlorate . . . 12, 103
 Atherospermatannic Acid . . 15, 514
 Atherospermine 18, 187
 Atmosphere terrestrial, how constituted 1, 259
 Atmospheric Air 2, 402
 " pressure 1, 260
 Atomic number, circumstances which modify the . . 1, 56
 " number, definition of . . 1, 52
 " number of a compound, Gmelin's method of determining . . . 1, 76
 " number of a compound, Schroder's method of determining . . 1, 75
 " number, the reciprocal of the atomic volume . . 1, 58
 " numbers of compound gases . 1, 66
 " numbers of elementary gases 1, 53
 " numbers of solids and liquids 1, 68
 " theory, ancient . . . 1, 146
 " theory, modern . . . 1, 146
 " theory, Wollaston's argument for the correctness of . . . 1, 148
 " volume 1, 57
 " volume, and specific gravity, Playfair and Joule's researches on . 1, 83
 " weight 1, 42
 " weights, causes of difference in determination of . 1, 45
 " weights of compounds . . . 1, 59, 66, 68—72
 " weights of the elements . 1, 43—52
 " weights of the elements, table of 1, 50
 " weights, Gerhardt's . . . 7, 28
 " weights of metals in relation to their specific gravities 1, 84
 " weights, principles useful in determining . . . 1, 47
 " weights, relation between oxygen and hydrogen, scales of 1, 44
 " weights, relations of, to volumes 1, 84—86
 Atomic weights and densities, Filliol's calculations of relations between . . . 1, 79
 " weights and densities, tables illustrating the relations between . . . 1, 68—72; 84, 85
 " weights and densities of simple substances, relations between . . 1, 52—59
 Atoms, compound 1, 42, 147
 " of compounds, heat-capacity of 1, 248
 " constitution of . . . 1, 146
 " elementary, capacity for heat of 1, 243
 " elementary, relative position of, in compound organic atoms . . . 7, 20
 " even numbers of elementary, in organic compounds 7, 6
 " forms of 1, 146
 " hypothesis of . . . 1, 42, 145
 " surrounded by spheres of heat 1, 147
Atropa Belladonna, oil from the seed of 16, 314
Atropa Belladonna, colouring matter of the roots of . . 17, 1
 Atropic Acid 16, 458
 Atropine 16, 448
 " Salts 16, 454—456
 Atrosin 17, 1
 Attraction, adhesive . . . 1, 20
 " of aggregation . . . 1, 6
 " chemical 1, 33
 " cohesive 1, 6
 " of crystallisation . . 1, 8
 " of gravitation . . . 1, 1
 " elective 1, 33
Atherosperma Moschatum, resin of the bark of 17, 447
 Augite 3, 402
 Augite, conchoidal 3, 429
 Aurate or Auradine, *see* Nerolite-camphor.
 Aurate of Ammonia 6, 222
 " Baryta 6, 233
 " Lime with Chloride of Calcium 6, 234
 " Magnesia 6, 234
 " Potash 6, 226
 " Potash with Chloride of Potassium . . . 6, 230
 " Soda with Chloride of Sodium 6, 233
 " Strontia with Chloride of Strontium 6, 234

<i>Aurelia</i> , phosphorescence of ...	1, 186	Aurous Iodide	6, 211
Auric Acetate	8, 334	„ Oxide	6, 205
„ Acid	6, 207	„ Sulphide	6, 210
„ Chloride	6, 215	„ Stannate?	6, 239
„ Cyanide?	8, 36	<i>Aurum mosaicum</i> , or <i>musivum</i> ...	5, 79
„ Iodate	6, 214	Aventurin-glass	3, 381
„ Iodide	6, 213	Avenin	18, 137
„ Molybdate	6, 237	Avornin	18, 217
„ Nitrate	6, 222	Axes of crystals	1, 15
„ Oxide	6, 207	„ magne-crystalline and mag-	
„ Oxide, hydrated ..	6, 209	neto-crystalline	1, 518, 519
„ Persulphomolybdate ..	6, 237	Axin, or Age	17, 47
„ Salts	6, 209	Aximic Acid	16, 317, 17, 46
„ Sulpharsenate	6, 238	Axinite	8, 453
„ Sulpharsenite	6, 238	<i>Azadirachta indica</i> , oil of the	
„ Sulphate	6, 211	Almonds of ..	17, 94
„ Sulphide	6, 210	Azaminine	11, 293
„ Sulphomolybdate ..	6, 237	Azelaates, metallic ..	17, 81
„ Sulphotellurite	6, 238	Azelic Acid	17, 79
„ Sulphotungstate	6, 237	Azerythrin	12, 359
Aurichalcite	5, 480	Azomnisl, Nitride of ..	13, 145
Aurico-sodic Hyposulphite ...	6, 232	Azobenzene, Azobenzide or Azo-	
Auridcyanide of Ammonium ...	8, 38	benzol	11, 337
„ Silver	8, 42	Azobenzile	12, 220
„ Potassium	8, 41	Azobenzoxide	12, 211
Auriferous Silver	6, 247	Azobenzoidin	12, 211
„ Telluride of Silver ...	6, 250	Azobenzolide	12, 205
Auripigment	4, 273	Azobenzoyl, Hydride of ..	12, 191
Aurite of Potash	6, 226	„ Hydrosulphate	12, 208
„ Ammonia	6, 222	„	12, 215
Aurocyanide of Ammonium ...	8, 37	Azolitimin?	12, 364
„ Iron	8, 42	Azonaphthylamine, <i>see</i> Semi-	
„ Lead	8, 42	naphthylamine	
„ Manganese	8, 42	Azo-nuclei	7, 170
„ Potassium	8, 38	„ Aldehydes of ..	7, 195
„ Silver	8, 42	Azophenylamine	11, 293
„ Tin	8, 42	Azophosphate, Cupric ..	5, 456
„ Zinc	8, 42	„ Ferric	5, 259
Auroso-barytic Hyposulphite ...	6, 233	„ Plumbic	5, 158
Auroso-sodic Hyposulphite ...	6, 231	Azote	2, 370
„ Sulphate	6, 232	Azoxybenzene	11, 341
Aurosulphide of Potassium ...	6, 227	Azulmic Acid	11, 375
„ Sodium	6, 230	„ (Braconot's)	17, 476
„ Potash	6, 227	Azulmine	11, 375
Aurous Chloride	6, 215	Azure Copper ore	5, 415
„ Cyanide	8, 34		

B.

Badger fat	16, 385	Balsam of Peru	17, 389
<i>Balanis misticetus</i> , oil from the		„ Tolu	17, 392
blubber of	16, 321	<i>Balsamea Canadensis</i> , turpen-	
„ <i>rostrata</i> , tram oil from	17, 180	tine from	18, 18
Balanophora Wax	18, 158	<i>Balsamodendron</i> , Bdellium resin	
Baldwin's Phosphorus ..	1, 194	obtained from various species	
Balm oil	14, 359	of	17, 402
<i>Balneum Maris</i> v. <i>Maria</i> ...	1, 275	<i>Balsamodendron Myrrha</i> , resin	
Balsam of Copaiba	17, 327	of	17, 425
„ Mecca	17, 393	Banca Tin	5, 67

Bar Iron	5, 205	Barium Sulphides	3, 116
Bar Steel	5, 206	„ Sulphide of, with Fluoride of Calcium	3, 218
Barberry-root, preparation of berberine from the bark of	17, 186	„ Sulphide of, with Mustard-oil	10, 49
„ preparation of oxyacanthine from	17, 197	„ Sulphocyanide	8, 84
Baregin	18, 157	„ Sulphocyanide of, with Cyanide of Mercury	8, 96
Barilla	3, 78	„ Sulphostannate	5, 99
Barium	3, 133	„ Sulphotungstate	4, 43
„ Alloys	3, 166	„ Sulphovanadate	4, 101
„ Amalgam	6, 105	„ Thiocyanide	8, 114
„ Bromide	3, 156	„ and Carbon, Sulphide	3, 153
„ Bromide of, with Cyanide of Mercury	8, 22, 19	„ and Copper, Salicylate	12, 254
„ Bromo-aurate	6, 233	„ „ Sulphide	5, 463
„ Bromopalladite	6, 355	„ „ camphorate	13, 380
„ Chloride	3, 157	„ and Ethyl, Phosphites	9, 360
„ Chloride of, with Aurate of Baryta	6, 234	„ and Hydrogen, Sulphide	3, 149
„ Chloride of, with Cyanide of Mercury	8, 22, 19	„ and Iron, Alloy	5, 273
„ Chloride of, with Fluoride of Calcium and Sulphate of Baryta	3, 219	„ „ Sulphide	5, 273
„ Chloro-aurate	6, 233	„ and Mercury, Bromide	6, 106
„ Chloropalladite	6, 355	„ „ Chloride	6, 106
„ Chloroplatinite	6, 327	„ „ Iodide	6, 106
„ Chloro-stannite	5, 99	„ „ Sulphide	6, 105
„ Cobaltocyanide	7, 495	„ and Palladium, Alloy	6, 355
„ and Copper, alloy of ?	5, 462	„ and Platinum, Alloy	6, 327
„ Cuprocyanide	8, 7	„ and Potassium, Ferri-cyanide	7, 481
„ Cyanide	7, 417, 12, 495	„ and Potassium, Ferrocyanide	7, 481
„ Ferrocyanide	7, 480	„ and Potassium, Sulphide	3, 164
„ Fluoride	3, 161	„ and Ruthenium, Sesquichloride	6, 404
„ Hydrosulphocyanide	8, 101	„ and Selenium, Fluoride	3, 387
„ Hyposulpharsenite	4, 301	„ and Silver, Alloy	6, 181
„ Iodide	3, 154	„ „ Chloride	6, 181
„ Iodide of, with Cyanide of Mercury	8, 22	„ and Zinc, Cyanide	7, 425
„ Iodo-aurate	6, 233	„ „ Iodide	5, 45
„ Iodo-platinite	6, 327	Bark of trees, formation of humus in	17, 459
„ Iodo-stannite	5, 99	Barley-malt, preparation of dextrin from	15, 187
„ Mellonide	9, 393	Barley-meal, oil of	17, 94
„ compound of Milk-sugar	15, 226	Barometer scale in millimetres and inches, table of	2, 499
„ Nitro-prusside	8, 132	Baros-camphor	15, 332
„ Peroxide	3, 138	Barsowite	3, 434
„ Phosphide	3, 141	Baryta	3, 134
„ Platinocyanide	8, 52; 10, 508	„ Acetate	8, 301
„ Platino-platinocyanide	8, 52	„ Acetate	13, 475
„ Salts, solubility of, in alcohol	8, 266	„ Acetonitrile	13, 443
„ Selamide	3, 153	„ Aconitites	11, 406
„ Selenocyanide	8, 123	„ Acrylate	9, 371
„ Sulphantimonate	4, 388	„ Albuminate	13, 306
„ Sulphantimonite	4, 388	„ Alcoholate	13, 422
„ Sulpharsenite	4, 301	„ Alloxanate	10, 163
„ Sulpharsenite	4, 301	„ Aloetate	12, 11
„ Sulpharsenite	4, 301	„ Althionate	8, 432

Baryta, Aluminate 3, 327	Baryta, Croconate 10, 394
„ Amidobenzoate 12, 146	„ crystallised .. 8, 136
„ Annulate .. 15, 100	„ Cuminate ... 14, 150
„ Amylophosphate .. 11, 51	„ Cyanate 8, 67
„ Amylosulphate 11, 57	„ Cyanurate .. 9, 453
„ Amylosulphite... .. 11, 53	„ Damaulurate 12, 487
„ Amylotartrate .. 11, 82	„ Elaidate 17, 77
„ Anchoate ... 13, 375	„ Ellagate 16, 188
„ Amate .. 13, 126, 581	„ Ethionate .. 8, 434
„ Antimoniate . 4, 388	„ Ethylomeconate 12, 431
„ Antimonite 4, 388	„ Ethylophosphate 8, 400
„ Arabate .. 15, 202	„ Ethylosulphite ... 8, 409
„ Arachidate .. 17, 371	„ Ethylothionate .. 12, 514
„ Arseniate .. 4, 300	„ Euchroate .. 10, 20
„ Arsenite . 4, 300	„ Eugenate .. 14, 205
„ Arsenmethylete .. 13, 497	„ Evernate .. 16, 444
„ Aspartate .. 10, 235	„ Ferrate . 5, 273
„ Aurate . 6, 233	„ with Fluxes . 3, 164
„ Aurate of, with Chloride	„ Formate . 7, 277
of Barium .. 6, 234	„ Fulminurate . 10, 560
„ Azelate . 17, 81	„ Fumarate ... 10, 26
„ Benate .. 17, 559	„ Gallate .. 12, 406
„ Benzoate .. 12, 59	„ -compounds of Glucose 15, 327
„ Benzoglycolate .. 12, 66	„ Glycocholate .. 18, 60
„ Biethylmeconate .. 12, 434	„ Glycolate 12, 509; 13, 437
„ Dimethylphosphate .. 12, 483	„ Glyoxylate .. 13, 435
„ Diutroethylate 12, 557	„ -harmotone ... 3, 446
„ Diutrosalicylate . 12, 316	„ Hippurate ... 12, 76
„ Bisulphite with Glyoxal 12, 505	„ Hydrate .. 3, 135
„ Borates 3, 140	„ Hydrate, electrolysis of 1, 458
„ Bromacetate .. 12, 533	„ Hydrochlorate and Stan-
„ Bromate . 3, 156	ate of 5, 99
„ Bromoplatinate . 6, 327	„ Hydropentate . 15, 12
„ Butyrate .. 10, 555	„ Hydroelemente .. 3, 153
„ Butyrate .. 10, 85	„ Hyoglycocholate . 18, 104
„ Camphorate ... 14, 459	„ Hypobromite 3, 156
„ Caprate .. 14, 847	„ Hypochlorite 3, 160
„ Caproate .. 11, 417	„ Hypophosphate 3, 141
„ Caprylate 13, 192	„ Hyposulphate 3, 151
„ Carbobenzoate... 12, 47	„ Hyposulphite 3, 150
„ Carbolate ... 11, 152	„ Iodate .. 3, 154
„ Carbonates ... 3, 138	„ Isamate 13, 110
„ Chelidonate .. 12, 417	„ Isethionate 8, 430
„ Chenocholate 13, 130	„ Itaconate .. 10, 426
„ Chlorate .. 3, 160	„ Kinate .. 16, 228
„ Chlorite ... 3, 160	„ Lactate .. 11, 481
„ Chlorobenzoate 12, 114	„ Laurate 15, 47
„ Chlorostannate .. 5, 99	„ Lecanorate ... 12, 379
„ Cholate .. 18, 50	„ Leucate ... 15, 60
„ Choloidate .. 18, 55	„ Malates ... 8, 155
„ Chromate .. 4, 153	„ Malate 10, 215
„ Chrysammate .. 12, 4	„ Malonate 13, 561
„ Chrysophanate . 16, 175	„ Mandelate 12, 59
„ Cimicate . 16, 285	„ Manganate .. 4, 241
„ Cinnamate .. 13, 275	„ Mannitate .. 15, 383
„ Citraconate . 10, 420	„ Margurate 16, 478
„ Citrates .. 11, 448—449	„ Meconate .. 12, 427
„ Comenamate ... 11, 394	„ Mellitate ... 10, 6
„ Comenale . 11, 385	„ Mesaconate 10, 429

ta, Methionate . . .	8, 435	Iaryta, Stearate . . .	17, 110
Methylsalicylate . .	12, 257	Styphnate . . .	11, 232
Molybdate . . .	4, 75	Suberate . . .	13, 209
Monoselenite . . .	4, 300	Succinate . . .	10, 119
Monochloracetate . .	12, 539	Succates . . .	15, 284
Mucate . . .	11, 506	Sulphacetate . . .	8, 437
Myristate . . .	16, 212	Sulphanilate . . .	11, 298
Naphthionate . . .	14, 113	Sulphate . . .	3, 151
Niccolate . . .	5, 356	Sulphate of, with Chloride of Barium and Fluoride of Calcium . .	3, 219
Nitrate . . .	3, 163	Sulphate of, with Iridic Oxide . . .	6, 391
Nitrite . . .	3, 162	Sulphetherate . . .	10, 519
Nitrobenzoate . . .	12, 124	Sulphindigotate . . .	13, 63
Nitrosalicylate . . .	12, 305	Sulphite . . .	3, 150
Oenanthyrate . . .	12, 453	Sulphobenzozate . . .	12, 54
Oleate . . .	17, 71	Sulphobenzozate . . .	11, 156
Opianate . . .	14, 429	Sulphocaprylate . . .	13, 197
Osmiamate . . .	6, 420	Sulphometholate . . .	7, 299, 306
Oxalate . . . 9, 128; 13, 516		Sulphosinapate . . .	10, 35
Oxamate . . .	13, 536	Sulphovinate . . .	8, 422
Palmitate . . .	16, 362	Sulphuret . . .	3, 116
Pelargonate . . .	13, 370	Sylvate . . .	17, 320
Pentathionate . . .	3, 150	Tannate . . .	15, 165
Perchlorate . . .	3, 161	Tantalate . . .	4, 11
Periodate . . .	3, 155	Tartrate . . .	10, 285
Permanganate . . .	4, 211	Tartrelate . . .	10, 335
Phloretate . . .	13, 310	Tartrovinat . . .	10, 342
Phosphates . . .	3, 114	Taurocholate . . .	18, 68
Phosphites . . .	3, 113	Thiucetate . . .	13, 449
Phosphuret . . .	3, 139	Toluylate . . .	13, 9
Phthalate . . .	13, 13	Trithionate . . .	3, 150
Picrate . . .	11, 211	Tungstate . . .	4, 43
Pimelate . . .	12, 465	Uranate . . .	4, 190
Piperate . . .	14, 10	Urate . . .	10, 473
Platinate . . .	6, 327	Uroxanate . . .	10, 479
Plumbite . . .	5, 163	Valerate . . .	11, 32
Propionate . . . 9, 405; 10, 55		Vanadates . . .	4, 101
Purpurate . . .	10, 198	Vulpate . . .	17, 150
Pyromecconate . . .	10, 441	Xanthate . . .	8, 456
Pyromucate . . .	10, 385	Baryta and Alumina, oxalate of . . .	9, 305
Pyrotartrate . . .	11, 90	and Ammonia, carbonate of . . .	3, 163
Racemate . . .	10, 35	and Aurous oxide, hyposulphite of . . .	6, 233
Racemomethylate . .	10, 36	and Lime, butyrate of . .	10, 86
Racemovinate . . .	10, 36	and Lime, carbonate of . .	3, 218
Ricnelaudate . . .	17, 13	and Lime, compound of . .	3, 218
Rienoleate . . .	17, 13	and Lime, sulphate of . .	3, 218
Roccellate . . .	16, 47	with Magnesia ? . . .	3, 253
Saccharates . . .	11, 51	and Mercuric oxide, hyposulphite of . . .	6, 106
Salicylannate . . .	12, 32	and Platonic oxide, sulphate of . . .	6, 327
Salicylate . . .	12, 25	and Potash, carbonate of . . .	3, 164
Salicylite . . .	12, 242	and Potash, nitrate of . .	3, 164
Salicylurate . . .	12, 33		
-salt, acid of Faraday's smouldering . . .	14, 2		
Selenate . . .	3, 15		
Selenite . . .	3, 153		
Silicate . . .	3, 38		
Silicate of, with Silicate of Alumina . . .	3, 42		
Stannate . . .	5, 99		

Baryta and Potash, silicate of ..	3, 388	Beech-wood Vinegar, preparation of carbolic acid from	11, 189
„ and Potash, tartrate of	10, 286	Beef-fat, <i>see</i> Ox-fat.	
„ and Silver-oxide, nitrate of ..	6, 181	Beef-marrow, medullary acid in....	17, 540
„ and Soda, metaphosphate of ..	3, 165	Beer, detection of strychnine in	17, 483
„ and Soda, pyrophosphate of ..	3, 164	Beer-vinegar	8, 284
„ -water ..	3, 136	Beer-yeast	18, 459
Barytes ..	3, 134	Bee's-wax	18, 154
Baryto-calcite ..	3, 218	„ preparation of Crotonic acid from ..	18, 135
„ -chromic Oxalate ..	9, 142	Bect, cane-sugar in ..	15, 240
„ -ferric Oxalate ..	9, 160	„ colouring matter of ..	16, 531
Basanmelane ..	5, 291	„ preparation of Cane-sugar from ..	15, 242
Bases, development of electricity by combination of, with acids ..	1, 321	„ -juice, preparation of Lactic acid from ..	11, 477
„ development of electricity by combination of, with one another, with water and with salts ..	1, 332	Behen-oil ..	16, 386
„ hydrated ..	2, 63	Belladonna, preparation of Atropine from ..	10, 242
„ organic, <i>see</i> Alkaloids.		Bell-metal, &c ..	5, 482
„ and Acids, heat developed in the combination of ..	1, 296	„ British ..	5, 488
Basicity of Organic Acids	7, 197	Benate of Ethyl ..	17, 560
Bases volatile, from coal-tar oil	15, 156	Bonates, Metallic ..	17, 559
Basil-camphor ..	14, 359	Boric acid ..	17, 558
Basil Valentine ..	1, 3	Boric acids (Walter's) ..	16, 365
Bassia, Fats from various species of	16, 385	Benzacetosulphophenamide ..	12, 159
Bassic Acid ..	16, 365	Benzaldehyde ..	12, 18
Bassorin ..	15, 206	Benzamate of Methyl ..	12, 147
Batrachite ..	3, 401	Benzamic Acid ..	12, 142
Battery, Galvanic or Voltaic, <i>see</i> Galvanic Battery.		Benzamide ..	12, 139
Baukite ..	3, 451	Benzanil ..	12, 210
Baumé's Hydrometer, scale of ..	1, 10	Benzanilide ..	12, 155
„ quick flux ..	3, 69	Benzene, decomposition of ..	11, 137
Bayberry camphor ..	15, 52	„ from Boghead canal coal ..	13, 386
Bay fat ..	16, 393	„ formation of ..	11, 134
„ preparation of Lauric acid from ..	15, 44	„ popuration of, from benzoic acid ..	11, 184
Bay oil ..	14, 360	„ preparation of, from coal-tar	11, 184
Bdellium ..	17, 402	„ properties of	11, 187
Beans, French, preparation of Inositol from ..	15, 353	„ purification of ..	11, 188
„ volatile Oil of ..	14, 361	„ solvent properties of ..	11, 138
Bear-berry, resin from ..	15, 421	Benzhydramide, ..	12, 209
Bebiric acid ..	17, 173	Benzhydrolic acid ..	17, 395
Bebirine ..	17, 170	Benzidam ..	11, 246
Béchamp's Soluble Starch ..	15, 102	Benzidine ..	11, 388
Becher ..	1, 2	Benzilam	12, 219
Beck's Hydrometer, scale of ..	1, 10	Benzilates ..	12, 183
Becquerel's Oxygen-circuit ..	1, 335	Benzile ..	12, 184
Becuba Balsam ..	16, 396	Benzile, hydrocyanate of ..	12, 185
Becubin ..	18, 217	Benzilic Acid ..	12, 182
Beech-nut oil	17, 94	Benzilinn ..	12, 218
Beech-tar, preparation of Carbolic acid from ..	11, 140	Benzilimide	12, 218
		Benzimic Acid ..	12, 146
		Benzimide ..	12, 212
		Benzin ..	11, 134
		Benzo-acetic Acid, anhydrous	12, 95
		„ Ether ..	12, 92

Benzoate of Allyl	11, 84; 13, 545	Benzoates, general properties	
Alumina	12, 40	of ..	12, 23
Ammonia ..	12, 38	Hydrocarbons isomeric with naphthalin, obtained by the dry distillation of the ..	14, 11
Amyl ..	12, 84	Benzochlorhydrin ..	12, 105
Baryta ..	12, 39	Benzocinnamic Anhydride ..	13, 293
Benzoyl ..	12, 93	Benzocummic Anhydride ..	14, 157
Benzyl ..	12, 53	Benzodulcitan ..	15, 380
Benzylene ..	12, 225	Benzoene ..	12, 226
Binitrophenyl ..	12, 90	Benzoegenic Anhydride ..	14, 211
Bismuth ..	12, 41	Benzoglycolates, metallic ..	12, 66—68
Borneol	14, 355	Benzoglycolic Acid ..	12, 64
Bromophenyl ..	12, 88	Benzohechem ..	15, 342, 444
Cadmium ..	12, 41	Benzoic Acid ..	12, 32
Cærium ..	12, 40	amorphous ..	12, 46
Cetyl ..	16, 381	anhydrous ..	12, 93
Cholesteryl ..	18, 118	emission of light accompanying the sublimation of ..	1, 208
Chromium ..	12, 40	preparation of Benzene from ..	11, 134
Cinchonidine ..	17, 615	Benzoic Alcohol ..	12, 18
Cinchonine ..	17, 219	Anhydride ..	12, 93
Chlorophenyl ..	12, 89	Benzoate ..	12, 93
Cobalt ..	12, 43	Ether ..	12, 60
Copper ..	12, 43	Enanthylate ..	12, 462
Cumoglycol ..	14, 154	Salicylate ..	12, 283
Cumyl ..	14, 157	Benzoic acid ..	12, 104
Cumylene ..	14, 154	Benzoïn ..	12, 173; 17, 383, 618
Enanthyl ..	12, 462	flowers of ..	12, 32
Ethyl ..	12, 60	preparation of picric acid from ..	11, 213
Ethylsalicyl ..	12, 260	separation of the resins of ..	17, 384
Eugenyl ..	14, 21	Benzoinam ..	12, 216
Glucina ..	12, 40	Benzoinamide ? ..	12, 217
Gold ..	12, 45	Benzol ..	11, 134
Iron ..	12, 42	Benzolactates ..	12, 92
Lead ..	12, 41	Benzoline ..	12, 194
Lime ..	12, 39	Benzone ..	12, 193
Lithia ..	12, 39	Benzonannitans ..	15, 379, 380
Magnesia ..	12, 39	Benzomyristic Anhydride ..	16, 216
Manganese ..	12, 41	Benzo-naphtuonamide ..	14, 507
Mercury ..	12, 41	Benzone ..	12, 85
Methyl ..	12, 56	Benzonitransisidide ..	12, 269
Methyl-salicyl ..	12, 258	Benzonitrile ..	12, 161
Nickel ..	12, 43	Benzotrobenzoic Anhydride ..	12, 137
Palladium ..	12, 45	Benzo-cenanthylic Anhydride ..	12, 462
Phenyl	12, 86	Benzo-pelargonic Anhydride ..	13, 373
Platinum ..	12, 45	Benzophenide ..	12, 87
Potash ..	12, 38	Benzophenone ..	12, 85
Quinine ..	17, 617	Benzopipite ..	15, 214
Salicylous Acid ..	12, 244	Benzopiperide ..	15, 17
Silver ..	12, 45	Benzoquercite ..	15, 217
Soda ..	12, 39	Benzostearic Anhydride ..	17, 123
Strontia ..	12, 39	Benzo-stilbin ..	12, 193
Sycoceryl ..	17, 45		
Termitrophenyl ..	12, 91		
Tin ..	12, 41		
Uranium ..	12, 41		
Urea ..	13, 406		
Valeryl ..	12, 96		
Yttria ..	12, 40		
Zinc ..	12, 41		
Zirconia	12, 40		

Benzosuccinin	13, 581	Benzylene, Hydrochlorate	12, 50
Benzosulphophenamide	12, 156	„ Methylate . . .	12, 221
Benzo-valeric Acid, anhydrous ...	12, 96	„ Succinate ...	12, 225
Benzoyl ..	12, 184	„ Sulphate ..	12, 225
Benzoyl Benzoate	12, 93	„ Sulphide ..	12, 49
„ Bromide ...	12, 107	„ Valerate ..	12, 224
„ Chloride ..	12, 108	Benzyl Alcohol ..	12, 18
„ „ combination of, with bichloro- vinic ether	12, 111	„ preparation of toluene from....	12, 226
„ „ combination of, with bitter almond oil	12, 111	Benzyl Ether . . .	12, 16
„ Cyanide	12, 118	Berberine . . .	17, 185
„ Hydride ..	12, 18	Berberine Salts ..	17, 189—196
„ Iodide	12, 107	Berberies, preparation of malic acid from . . .	10, 210
„ Myristate .	16, 216	Berengelite . . .	17, 435
„ Peroxide	13, 446	Bergamot Oil ..	14, 281
„ Phenyl and Hydrogen, nitride of	12, 155	„ hydrate of . .	14, 345
„ Salicylide of	12, 214	„ stearoptene of . .	14, 345
„ Sulphide ...	12, 106	„ Camphor ..	14, 34
„ Sulphocyanide	12, 163	Bergaptona ...	13, ?
„ Sulphophenyl and Acetyl, nitride of ..	12, 159	Bergman, his researches on chemical affinity ..	1, 5
„ Sulphophenyl and Hy- drogen, nitride of ..	12, 157	Berries, blue and red colouring matters of ...	16, 528
Benzoylamide .	12, 165	Berthierite ..	5, 311
Benzoylazotide ..	12, 206	Berthollet's researches on Affinity ..	1, 5
„ Quadrat's com- pound resen- bling .	12, 207	„ Basic Carbonate of Soda	3, 78
Benzoyl-benzoin .	12, 176	„ Fulminating Silver	6, 172
Benzoyl-cinchonine	17, 234	„ Theory of Gaseous Mixture . . .	1, 21
Benzoyl-glucose ..	15, 333	„ Theory of Chemi- cal Combination	1, 149—152
Benzoyl-phenylamide ...	12, 155	Beryl	3, 427
Benzoyl-phloroglucin	15, 71	„ preparation of Glucina from	3, 294
Benzoyl-quinine .	17, 310	Berzelite	4, 308
Benzoyl-salicin....	15, 441	Berzelius, chemical symbols introduced by	1, 50
Benzoyl-salicylamic Acid	12, 324	„ his exact determina- tions of combining proportions by weight ...	1, 6
Benzoyl-salicylamide ..	12, 324	„ electrochemical theory	1, 154
Benzoyl-salicylimide	12, 325	„ table of atomic weights, accord- ing to	1, 50
Benzoyl-troca	12, 154	„ theory of isomer- ism	1, 108
Benzoylureide .	12, 216	„ theory of meta- merism ...	1, 110
Benzureide	12, 151	„ theory of polymer- ism ..	1, 109
Benzyl ..	12, 184	„ and Marcet's camphoroidal com- pound	7, 360
„ Acetate ...	12, 52		
„ Benzoate ..	12, 53		
„ Chloride .	12, 50		
„ Cyanide ...	12, 52		
„ Ethylate ...	12, 17		
„ Iodide	12, 50		
Benzylate of Ethyl	12, 17		
Benzylene, Acetate ...	12, 224		
„ Amylate	12, 222		
„ Benzoate ..	12, 225		
„ Chloride ...	12, 51		
„ Ethylate	12, 221		
„ Hydride ..	12, 50		

Berzelius and Marcet's camphoroidal compound, solubility of in alcohol	8, 264	Bibenzoyl-glucose	15, 335
Beta-erythrin	17, 538	Bibenzoylimide	12, 190
Betaine	18, 188	Bibenzoylphenamide	12, 156
Beta-orcan	12, 358	Biborate of Amyl	11, 47
Beta-orcin	13, 150	Ethyl	8, 396
Beta-orsellie Acid	16, 295	Methyl	7, 295
Beta-picroerythrin	17, 539	Potash	3, 25
Beta-quimidine	17, 295	Soda	3, 87
Beta-quinine	17, 295	Bibromacetamide	13, 532
Beta-thuja Resin	15, 37	Bibromacetates	12, 535
Beta-usme Acid	17, 48	Bibromacetic Acid	13, 531
<i>Betula alba</i> , Phlobaphene from the outer bark of	15, 495	Ether	13, 535
Betulin	17, 402	Ethers	12, 532
Betuloretic Acid	17, 403	Bibromallylamine	13, 519
Betuloretinate of Stachnine	17, 504	Bibromallylphosphine	13, 577
Bezoardic Acid, <i>see</i> Ellagic Acid.		Bibromaniline	11, 279
Bezoars, preparation of Ellagic Acid from	16, 185	Bibromanisol	12, 263
Biacetescigenin	18, 37	Bibromethylamine	9, 63
Biacetamide	12, 515	Bibromhydrin	13, 574
Biacetate of Alumina	8, 304	Bibromide of Allyl	13, 542
" Amylene	13, 558	Bromonitrohar-	
" Butylene	13, 556	mine	16, 113
" Ethylene	13, 430	Ethylene	8, 366
" Potash	8, 299	Platinum	6, 292
" " anhydrous	8, 337	Spiroyl	12, 287
" Propylene	13, 555	Tellurium	4, 410
" Soda	8, 300	Tin	5, 84
Biacetin	9, 496	Bibrommasatin	13, 108
" Glycolic	13, 430	Bibromindin	13, 87
Biacetochlorhydrin	13, 580	Bibromisatic Acid	13, 71
Biaceto-quercetic acid	16, 489	Bibromisatin	13, 70
Bicetylaniline	16, 384	Bibromisatosulphurous Acid	13, 72
Biallylamine	13, 547	Bibromisatyde	13, 99
Biallyl-urea	13, 546	Bibromobichloronaphthalin	14, 75
Biamaniline	11, 332	Bibromobutyric Acid	10, 136
Biamides	7, 24	Bibromobutyric Ether	10, 138
Biamylamine	11, 107	Bibromocarboic Acid	11, 168
Biamide of Sulphobenzoyl	12, 150	" " Nitroben-	
Biamidobenzoic Acid	12, 149	zoate of	12, 132
Biamidobenzylene, sulphate	12, 150	Bibromocarmindin	13, 116
Biamidocummic Acid	14, 176	Bibromochlorhydrin	13, 578
Biamidomeconic Acid	12, 435	Bibromocinchonine	17, 236
Biamidosulphobenzene	11, 348	Bibromomelamine	11, 356
Biantmonite of Potash	4, 375	Bibromonaphthalin	14, 32
Biarsenite of Potash	4, 291	Bibromonaphthyl Bromide, <i>see</i>	
Biaxial or Potash Mica	3, 449	Terbromonaphthalin	14, 33
Bibenzanilide	12, 155	Bibromonitracetomtrile	12, 550
Bibenzate of Ethylene	13, 433	Bibromophenol	11, 168
Bibenzomannitan	15, 379	Bibromophenyl: Nitrobenzoate	12, 132
Bibenzosulphophenamide	12, 159	Bibromophloretic Acid	13, 330
Bibenzoyl, Bisulphophenyl, and Succinyl, binitride of	12, 160	Bibromosalicene and Hydrogen, sulphide of	12, 290
Bibenzoyl and Phenyl, nitride of	12, 156	Bibromosalicic Acid	12, 288
Bibenzoyl and Sulphophenyl, nitride of	12, 159	Bibromosaliculous Acid	12, 287
		Bibromostearic Acid	17, 146
		Bibromosulphonaphthalates	14, 33
		Bibromoterchloronaphthalin	14, 80
		Bibromoveratrol	13, 357
		Bibutyrate of Ethylene	13, 432

Bibutyrim ..	10, 94	Bichloride of Tin ..	5, 87
Bibutyroglucose ..	15, 332	„ „ Compound of	
Bibutyromannitan ..	15, 375	with Cyanide of	
Bicarbonate of Ammonia ..	2, 434	Ethyl ..	13, 457
„ Baryta ..	3, 140	„ Tin, Compound of,	
„ Bisulphethyl ..	8, 416	with Cyanide of	
„ Magnesia ..	3, 230	Methyl ..	13, 412
„ Potash ..	3, 22	„ Tin with Teichlo-	
„ Soda ..	3, 84	ride of Arsenic ..	5, 103
Bicarburet of Azote ..	11, 371	„ Titanium ..	3, 479
Bicarburetted Hydrogen		„ Tungsten ..	4, 35
8, 164, 11, 134		Bichlorinated Ethylic Sulphide ..	10, 513
Bichloroacetal ..	13, 478	„ Hydrochloric Ether ..	9, 193
Bichloroacetone ..	13, 464	„ Methylic Sulphide ..	10, 501
Bichloroaniline ..	11, 285	„ Methyl Chloride,	
Bichlorethylamine ..	9, 63	Sulphite of ..	7, 350
Bichlorhydrin ..	9, 499	„ Methyl-ether ..	7, 350
Bichlorhydro-chloroplatinate of		„ Vinic Ether ..	9, 197
Diplatinamine ..	6, 319	Bichlorindin ..	13, 88
Bichlorhydrokinone ..	11, 189	Bichloriodide of Tetramethy-	
„ coloured ..	11, 192	lum ..	12, 491
Bichlorhydromtrate of Diplatina-		Bichlorisamic Acid ..	13, 113
mine ..	6, 311	Bichlorisamide ..	13, 114
Bichlorhydrosulphate of Dipla-		Bichlorisatic Acid ..	13, 79
tinamine ..	6, 318	Bichlorisatin ..	13, 78
Bichloride of Anthracene	16, 168	Bichlorisato-sulphurous Acid ..	13, 81
„ Arsenmethyle ..	13, 498	Bichlorisatyde ..	13, 102
„ Carbon ..	7, 355	Bichlorisatydic Acid ..	13, 103
„ Glycerylene ..	13, 577	Bichlorobenzylene, Oxide of ..	12, 116
„ Hydrogen ..	2, 325	„ Sulphate of ..	12, 117
„ Iridium ..	6, 380	Bichlorobutylal ..	10, 140
„ „ and Ammo-		Bichlorobutyric Acid ..	10, 140
nium ..	6, 382	„ Ether ..	10, 142
„ Iridium and Potis-		Bichlorocarbolic Acid ..	11, 179
sium ..	6, 386	Bichlorocarbolic Ether ..	9, 225
„ Iridium and Sodium ..	6, 391	Bichlorocinchonne ..	17, 237
„ Methylene ..	7, 288	Bichlorofilipelosates ..	15, 31
„ Osmium ..	6, 413	Bichloroharmane ..	16, 108
„ „ and Potas-		Bichlorokinhydrone ..	11, 192
sium ..	6, 418	Bichlorokinone ..	11, 188
„ Palladium ..	6, 349	Bichloromelaniline ..	11, 357
„ Pelargonene ..	13, 363	Bichloromethylic Acetate ..	9, 231
„ Platinum ..	6, 294	Bichloronaphthalin ..	14, 41
„ „ Compound		Bichloronaphthalin, Bihydro-	
of with cyanide of		chlorate of ..	14, 46
ethyl ..	13, 457	Bichlorophenol ..	11, 178
„ Platinum, with nitric		Bichlorophthalic Acid ..	13, 17
oxide ? ..	6, 295	Bichloropteritanic Acid ..	15, 502
„ Ruthenium ..	6, 401	Bichlorosalicin ..	15, 447
„ Selenium ..	2, 345	Bichlorosalicin, compound of,	
„ Sulphur ..	2, 334	with Perchlorosalicin ..	15, 449
„ „ Carbonate		Bichlorosalicylic Acid ..	12, 298
of ..	2, 337	Bichlorosalicylic Acid ..	12, 297
„ „ with Pen-		Bichlorosaligenin ..	12, 297
tachloride of Anti-		Bichloro-sulphosomethylic Acid ..	7, 302
mony ..	4, 370	Bichlorosulphonaphthalates ..	14, 45
„ Sulphur, Sulphate		Bichlorotannaspidic Acid ..	15, 407
of ..	2, 345	Bichloroterebene ..	14, 439
„ Tellurium ..	4, 412	Bichlorovinic Acetate ..	9, 235

Bichlorovinic Ether, combination of Chloride of Benzoyl with . . .	12, 111	Biethyl-zincamide . . .	13, 504
„ Formate . . .	9, 231	Bifluoride of Platinum . . .	6, 296
Bichromate of Ammonia with Protochloride of Mercury . . .	6, 115	„ Tellurium . . .	4, 413
Bichromate of Chromic Oxide Cr_2O_3 or $\text{Cr}_2\text{O}_3 \cdot 2\text{CrO}_3$. . .	4, 115	„ Tin, hydrated . . .	5, 92
„ Lepidine . . .	14, 104	„ Titanium, with Sesquifluoride of Iron . . .	5, 292
„ Potash . . .	4, 146	„ Vanadium . . .	4, 96
„ Potash with Protochloride of Mercury . . .	6, 115	<i>Bignonia Chica</i> , red colouring matter of . . .	17, 19
„ Potash with Nitrate of Potash . . .	4, 151	Bihydiate of Cajputene . . .	14, 512
„ Potash, preparation of oxygen by the action of sulphuric acid on . . .	2, 22	„ Mesitylene . . .	13, 343
„ Silver-oxide . . .	6, 184	„ Methylene . . .	7, 258
„ Soda . . .	4, 152	Bihydrated Valerianic Acid . . .	11, 29
Bicinnamylamine . . .	13, 303	Bihydrodate of Cinchonidine . . .	17, 612
Bicitromannutan . . .	15, 379	„ Quinine . . .	17, 615
Bicmnylamme . . .	19, 503	„ Vanalic Oxide . . .	4, 94
Bicupric Cyanurate with Ammonia . . .	9, 455	Bihydrobromate of Bibromobichloronaphthalin . . .	14, 75
Bicyanide of Palladium . . .	8, 59	Bihydrobromate of Pentabromonaphthalin . . .	14, 37
„ Platinum with Chloride of Ammonium . . .	8, 47	Bihydrobromate of Quadribromonaphthalin . . .	14, 37
„ Platinum with Chloride of Potassium . . .	8, 51	Bihydrobromate of Terbromochloronaphthalin . . .	14, 73
Bicyanocodene . . .	17, 42	Bihydrochlorate of Bibromobichloronaphthalin . . .	14, 76
Bicyanoneclamlane . . .	11, 362	Bihydrochlorate of Bibromotrichloronaphthalin . . .	14, 81
Bicyanomenaphthylamine . . .	14, 127	Bihydrochlorate of Bichloronaphthalin . . .	14, 46
Bichuyba Fat . . .	16, 396	Bihydrochlorate of Bromochloronaphthalin . . .	14, 72
Biehamylamine . . .	11, 108	Bihydrochlorate of Cajputene . . .	14, 514
Biehamiline . . .	11, 307	„ Mandarin oil . . .	14, 305
Biethyl, Plumbic . . .	13, 510	„ Platinamine . . .	6, 306, 314
„ Stannic . . .	13, 506	„ Quadrichloronaphthalin . . .	14, 62
Biethylamine . . .	9, 64	Bihydrochlorate of Quintichlorotoluol . . .	12, 292
Biethylate of Ethylene . . .	13, 427	Bihydrochlorate of Terechloronaphthalin . . .	14, 56
Biethylene-biamine . . .	13, 486	Bihydrochlorate of Terechloronaphthalin, acid obtained from, by the action of nitric acid . . .	14, 67
Biethylchloraniline . . .	11, 309	Bihydrochlorate of Turpentine oil . . .	14, 268
Biethylcoume . . .	13, 172	„ Turpentine oil with Hydrochlorate of Terebene . . .	14, 275
Biethyleyanuric Acid . . .	13, 564	Bihydrochlorate of Vanadic oxide . . .	4, 94
Biethyl-glycol . . .	13, 427	Bihydrofluat of Ammonia . . .	2, 488
Biethylin . . .	9, 495	Bihydroseleniate of Magnesia . . .	3, 239
Biethylneconic Acid . . .	12, 433	Bihydrosulphate of Ammonia . . .	2, 452
Biethylphosphoric Acid . . .	8, 401	„ Cyanogen . . .	8, 118
Biethylpyperidine, Chloroplatinate . . .	10, 452	„ Cyanogen, compounds of, with Potassium, Lead, Copper, and Mercury . . .	8, 120
Bi-epibromhydrophosphoryl . . .	13, 577		
Biethylsparteine . . .	16, 283		
Biethyltoluidine . . .	12, 341		
Biethyl-urea . . .	13, 537		

Bihydrosulphate of Lime ..	3, 197	Binitride of Bisulphophenyl, Bi-	
" Stannous ..	5, 80	benzoyl, and Suc-	
Bihydrosulphates of the Alkalies	2, 226	cmyl ..	12, 160
Bihydrotellurate of Ammonia	4, 414	" Sulphobenzoyl, Phe-	
Biimides ..	7, 25	nyl, and Hydro-	
Bilberry Plant ..	16, 223	gen ..	12, 160
Bile, history of the investigation		<i>Binitride d'Anthracénèse</i> , Lau-	
of ..	18, 63	rent's ..	16, 166
" preparation of glycocholic		<i>Binitride d'Anthracémse</i> , Lau-	
acid from ..	18, 57	rent's ..	16, 166
" preparation of taurine		Binitroarbutin ..	15, 421
from ..	9, 284	Binitrobenzamide ..	12, 153
" preparation of taurocholic		Binitrobenzene ..	11, 204
acid from ..	18, 65	Binitrobenzoate of Ethyl ..	12, 136
" of the pig, pigment of ..	18, 80	Binitrobenzoates, metallic ..	12, 135
" of serpents, pigment of ..	18, 80	Binitrobenzoene ..	12, 301
" -pigments ..	18, 69	Binitrobenzoic Acid ..	12, 134
Biliary acid from guano ..	18, 69	Binitrobenzoyl of Hydrogen, Ni-	
Bilifuscin ..	18, 79	tride of ..	12, 153
Bilumin ..	18, 80	Binitrobromocarbohic Acid ..	11, 208
Biliprasin ..	18, 79	Binitrobromophenol ..	11, 208
Bilirubates, metallic ..	18, 75	Binitrocacrylene ..	13, 219
Bilirubin ..	18, 71	Binitrocarbohic Acid ..	11, 205
Biliverdin ..	18, 77	" Nitroben-	
Bimannitate of Lime ..	15, 367	zoate of ..	12, 133
Bimethylamine ..	13, 393	Binitrochlorobenzene ..	11, 211
Bimethyl-biethylammonium	13, 394	Binitrochrysene ..	15, 3
Bimethylocitric Acid ? ..	11, 460	Binitrocummate of Ethyl ..	14, 172
Bimolybdate of Potash ..	4, 69	Binitrocummic Acid ..	14, 171
" Soda ..	4, 73	Binitrocumol ..	13, 347
Binary Theory of Salts ..	2, 15	Binitrocymene ..	14, 217
" two kinds of ra-		Binitrodiphenamic Acid ..	11, 345
dicals in the ..	7, 11	Binitroethylates, metallic ..	12, 557
Biniodate of Ferric Oxide ..	5, 250	Binitroethylic Acid ..	12, 555
" Potash ..	3, 52	" Ether ..	12, 560
" Potash with Chlo-		Binitrogentanic Acid ..	16, 182
ride of Potassium ..	3, 72	Binitromelaniline ..	11, 358
" Potash with Bisul-		Binitromesitylene ..	9, 20
phate of Potash ..	3, 71	Binitromestylol ..	13, 347
" Soda ..	3, 108	Binitromethylene Chloride ..	7, 360
Biniodethylamine ..	9, 63	Binitromethylc Acid ..	12, 494
Biniodide of Allyl ..	13, 541	Binitronaphthalin ..	14, 86
" Arsenmethyl ..	13, 498	Binitrophenetol ..	11, 271
" Chloronitroharmin ..	16, 115	Binitrophenol ..	11, 205
" Ethylene ..	3, 362	Binitrophenyl Benzoate ..	12, 90
" Iridium ..	3, 378	" Nitrobenzoate ..	12, 133
" Mercury ..	3, 40	Binitrophoretic Acid ..	13, 331
" Nitroharmin ..	16, 112	Binitropyrene ..	16, 249
" Platinum ..	3, 291	Binitrosalicylates ..	12, 315
" Tellurium ..	4, 408	Binitrosalicylic Acid ..	12, 313
Biniodomelaniline ..	11, 356	Binitrosulphobenzene ..	11, 347
Biniodonitracetonitrile ..	12, 551	Binitrosulphonaphthalic Acid ..	14, 87
Biniodocodeine ..	17, 36	Binitrothymol ..	14, 444
Bintramidin ..	15, 100	Binitrotoluene or Binitrotoluol ..	12, 301
Binitrammonyl ..	12, 548	Binitroveratrol ..	13, 357
Binitraniline ..	11, 292	Binitroxanthracene ..	16, 170
Binitranisidine ..	12, 268	Binopiammone ..	14, 435
Binitranisoin ..	14, 218	Binoxide of Arsenmethyl ..	13, 495
Binitrobenzene ..	11, 344	" Barium ..	3, 138

Binoxide of Chlorocaprylene	13, 216	Bismuth, Arsenide	4, 449
„ Hydrogen ..	2, 73	„ Benzoate ..	12, 41
„ Iridium ..	6, 373	„ -blende or Bismuthite	4, 448
„ Lead ..	5, 120	„ Borate ..	4, 448
„ Manganese	4, 205	„ Bromate ..	4, 438
„ Molybdenum	4, 51	„ Bromide ..	4, 438
„ Nitrogen	2, 377	„ Carbonate ..	4, 433
„ Osmium ..	6, 407	„ Chloride ..	4, 438
„ Palladium ..	6, 345	„ Chromate ..	4, 449
„ Platinum ..	6, 283	„ Croconate	10, 393
„ Ruthenium	6, 398	„ Crystalline Polarity of	1, 517
„ Tellurium ..	4, 397	„ Cupiocyanide	8, 7
„ Tin ..	5, 71	„ Diamagnetic properties of	1, 513
„ Trimethylphosphine	12, 492	„ Fluoride	4, 440
„ Tungsten ..	4, 25	„ Formiate ..	7, 279
„ Vanadium ..	4, 83	„ Gallate	12, 409
Bioleate, Mannitic ..	17, 100	„ Hydride ?	4, 433
Bioxides, <i>see</i> Binoxides		„ Iodate ..	4, 437
Bioxymethylene ..	13, 389	„ Iodides ..	4, 436
Bioxyprotein ..	18, 264	„ Lactate ..	11, 487
„ from horn	18, 350	„ Metaphosphate ..	4, 434
Bioxystrychnine	17, 506	„ Molybdate ..	4, 418
Bioxysulphocarbonate of Amyl...	11, 62	„ Nitrates	4, 440
„ Ethyl	8, 441	„ Oxalate	9, 150, 13, 524
Bipalmitin	16, 377	„ Oxides	4, 428
Biphenamine	11, 334	„ Oxide, hydrated	4, 430
Biphenethaniline	11, 336	„ Oxychloride ..	4, 439
Biphosphamide ..	2, 439	„ Oxy-iodide ..	4, 437
Biphosphomethyl ..	7, 323	„ Oxysulphocyanide	8, 86
Biplumbic Triethyl	13, 511	„ Peroxide	4, 431
Bipyromucamide ..	10, 405	„ Persulphomolybdate	4, 448
Bipyrotartramide ..	11, 102	„ Phosphate ..	4, 434
Birch-camphor ..	17, 402	„ Phosphide ..	4, 433
Birch-leaves, oil of ..	14, 361	„ Phosphite ...	4, 434
„ -oil, empyreumatic	14, 324	„ Pyrophosphate	4, 434
Birds' Feathers, colouring mat-		„ Pyrotartrate ..	11, 93
ters of ..	18, 419	„ Rhodizonate ..	10, 403
Birthwort Bitter ..	18, 215	„ Saccharate	11, 519
Biselenide of Silver	6, 156	„ Salts ..	4, 430
„ Trimethylphosphine	12, 492	„ Selenide	4, 436
Biselenite of Ammonia ...	2, 464	„ Silicide ..	4, 448
„ Ferrous	5, 247	„ Suboxide ? ..	4, 428
„ of Nickel ..	5, 374	„ Succinate ..	10, 124
„ Uramic ..	4, 178	„ Sulphantimoniate	4, 450
„ of Zinc ..	5, 27	„ Sulpharsoniate	4, 449
Bisethyl	9, 89	„ Sulpharsenite ..	4, 449
Bisilicate of Alumina ..	3, 415	„ Sulphates ..	4, 435
„ Ethyl ..	8, 481	„ Sulphides ..	4, 434
„ Ferric Oxide	5, 282	„ Sulphite ..	4, 435
„ Potash	3, 371	„ Sulphocacodylate	9, 337
Bismethyl	9, 86	„ Sulphocarbonate ..	4, 436
Bismuth ..	4, 427	„ Sulphocyanide ..	8, 86
„ Acetate ..	8, 308	„ Sulphomolybdate ..	4, 448
„ Amalgam ..	6, 122	„ Sulphotelluride	4, 450
„ Alloys ..	4, 450	„ Sulphotellurite ..	4, 450
„ Ammonio-chloride	4, 444	„ Sulphotungstate ..	4, 448
„ Ammonio-iodide ..	4, 444	„ Tannate ..	15, 467
„ Antimonide ...	4, 449	„ Tartrate ..	10, 310
„ Arseniate	4, 449	„ Telluride ..	4, 450

Bismuth, Terhydrochlorate	4, 439	Bisulphanilate of Baryta	11, 299
„ Valerate	11, 34	„ Silver	11, 299
Bismuth and Ammonium, chloride	4, 444	Bisulphamic Acid	11, 298
„ and Ammonium, oxalate	13, 524	Bisulphate of Ammonia	2, 462
„ and Copper, alloy	5, 477	„ Ferric Oxide	5, 243
„ and Copper, sulphide of	5, 477	„ Potash	3, 7
„ Copper and Lead, sulphide	5, 488	„ with Biiodate of Potash	3, 71
„ Antimony and Tin, alloys	5, 104	Soda	3, 103
„ and Gold, alloy	6, 238	Stibmethylum	7, 325
„ and Iron, cyanides	7, 489	Telluric Oxide	4, 107
„ and Lead, alloy	5, 178	Terchloride of Sulphur	2, 342
„ and Lead, amalgam	6, 127	„ Uranic Oxide	4, 177
„ Lead, and Tin, alloys	5, 180	„ Vanadic Acid	5, 93
„ and Nickel, alloy	5, 393	„ Zinc-oxide	5, 26
„ and Nickel, sulphide	5, 393	Bisulphetholic Acid	12, 516
„ and Palladium, alloy	6, 356	Bisulphethyl, Bicarbonate	8, 446
„ and Platinum, alloy	6, 333	Bisulphethylosulphuric Acid	8, 411
„ and Potassium, bismuthate	4, 445	Bisulphide of Amyl	11, 40
„ and Potassium, chloride	4, 447	„ Arsenmethyl	13, 497
„ and Potassium, iodide	4, 447	„ Bismuth	4, 434
„ and Potassium, oxalate	13, 524	„ Cacodyl	9, 334
„ and Rhodium, alloy	6, 368	„ Carbon	2, 200
„ and Silver, alloy	6, 193	„ Carbon, Ioduretted	2, 268
„ and Sodium, bismuthate	4, 447	„ Carbon, mixture of, with volatile oils	7, 168
„ and Sodium, chloride	4, 448	„ Carbon, Sulphuretted	2, 205
„ and Tin, alloys	5, 104	„ Cobalt	5, 332
„ and Tin, amalgam	6, 126	„ Ethyl	8, 351
„ Tin and Lead, amalgam	6, 128	„ Ethylene	8, 354
„ and Tungsten	4, 448	„ Iridium	6, 376
„ and Zinc, alloy	5, 51	„ Iodine	5, 232
Bismuthate of Bismuth-oxide and Potash	4, 445	„ Iodine, with Protoarsenide of Iron	5, 309
„ of Potash	4, 445	„ Methyl	7, 283
„ Bismuth and Soda	4, 447	„ Nickel	5, 371
Bismuth-glance	4, 450	„ Nickel, with Antimonide of Nickel	5, 393
Bismuthic Acid	4, 432	„ Nickel, with Protoarsenide of Nickel	5, 391
Bismuthide of Iron	5, 312	„ Osmium	6, 411
„ Iron and Potassium	5, 312	„ Platinum	6, 287
„ Potassium	4, 445	„ Potassium	3, 32
„ Sodium	4, 447	„ Tellurium	4, 405
Bistannamyl	11, 131	„ Tin	5, 79
Bistannic Triethyl	13, 507	„ Trimethylphosphine	12, 492
Bistearate of Dulcetyl	17, 128	„ Tungsten	4, 32
„ Ethylene	13, 434; 17, 116	Bisulphisatyle	13, 104
„ Pinetyl	17, 125	Bisulphite of Aldehyde-ammonia	9, 287
„ Quercetyl	17, 126	„ Ammonia anhydrous	2, 455
Bistearoglucose	17, 126	„ Ammonia	2, 457
Bistearyl-glycerophosphoric acid, produced by decomposition of lecithine	18, 377	„ Ammonia with Acetone	13, 469
Bisuccinamide	10, 152	„ Osmious oxide with Chloride of Potassium	6, 419
Bisulph-hyposulphuric Acid	2, 164	„ Potash	3, 38

Bisulphite of Potash with Salicy- lous Acid	12, 241	Bitter Almond oil with Hydro- cyanic acid	12, 28
" Soda	3, 100	Bitter Almond Water	12, 29
Bisulphites, Alkaline, compounds of, with Acetone	10, 522	" valuation of	12, 30
" Alkaline, compounds of, with Bitter Almond Oil	12, 27	" and Laurel Water, dis- tinction be- tween	12, 31
" Alkaline, compounds of with Cinnamic Aldehyde	13, 263	Bitter of Aloes, artificial	12, 1
" Alkaline, compounds of, with Cumminol	14, 147	Bitter, artificial, of extract of Brazil-wood	11, 228
" Alkaline, compounds of, with Glyoxal	12, 501	Bitter of Lycopodium	16, 98
" Alkaline, compounds of, with Nitroben- zaldehyde	12, 121	Bitter Salt	3, 236
" Alkaline, compounds of, with Rue-oil	14, 493	Bitter Spar	3, 253
" Alkaline, compounds of, with Salicylous acid	12, 241	<i>Bitumen candidum</i>	12, 439
Bisulphobenzolic Acid	11, 156	Bitumen, liquid	12, 439
Bisulphohydrokinonates	16, 240	Bituminous Mail-slate, vanadium in	4, 181
Bisulphometholic Acid	12, 481	" Shale, paraffin from	18, 167
Bisulphonaphthalites	14, 22	Bitungstate of Ammonia	4, 37
Bisulphophenyl, Bibenzoyl and Succinyl, binitride of	12, 160	" Cadmium	5, 65
Bisulphurated Vinic Ether	9, 4	" Cobalt	5, 346
Bitartrate of Potash	10, 275	" Copper	5, 466
Bitellurate of Ammonia	4, 414	" Iron	5, 296
" Lithia	4, 423	" Lead	5, 167
" Potash	4, 418	" Lithia	4, 42
" Soda	4, 421	" Magnesia	4, 425
Bitelluride of Ethyl	8, 387	" Manganese	4, 426
Bitelluride of Lime	4, 421	" Nickel	5, 326
" Lithia	4, 422	" Potash	4, 39
" Potash	4, 416	" Soda	4, 41
" Silver-oxide?	6, 192	" Strontia	4, 44
" Soda	4, 420	Bivalerin	11, 76
Bitrobenzolic Acid	11, 237	Bivanadate of Ammonia	4, 98
Bitranisol	12, 264	" Baryta	4, 101
Bitter Almond Oil	12, 19	" Cadmium	5, 65
" behaviour of crude com- mercial, with Ammonia	12, 25	" Copper	5, 467
" with Bichloride of Tin	12, 28	" Lead	5, 618
" with Alkaline Bisulphites	12, 27	" Lime	4, 102
" Camphor or Stearoptene of	12, 173	" Lithia	4, 101
" combination of, Benzoyl Chlo- ride with	12, 111	" Magnesia	4, 102
" with Cyanic Acid	12, 28	" Manganese	4, 247
		" Potash	4, 99
		" Soda	4, 100
		" Strontia	4, 102
		" Zinc	5, 43
		Bivinechloraniline	11, 309
		<i>Bixa Orellana</i> , red colouring matter of	18, 520
		Black, his experiments on abri- form bodies	1, 4
		Black Copper	5, 406
		" Flux	3, 20
		" Oxide of Copper	5, 406
		" Oxide of Mercury	6, 5
		" Pig Iron	5, 212
		" Pitch	15, 151, 153
		" Pigment of the Eye	18, 417
		" Poplar Buds, wax of	18, 162

Black Uranoso-uramic Oxide . .	4, 161	Boerhaave, his experiments on	
Bladders, diffusion of gases		Light, Heat, &c	1, 4
through	1, 25	Bog-butter	16, 386
" endosmotic action		" Iron-ore	5, 228
through	1, 28	Boghead Coal, Paraffin from . .	18, 167
Blanquette	3, 78	Boheic Acid	12, 478
Blast Furnace	2, 35	Bohemian Glass	3, 380
Bleaching Acid	2, 289	Boiling	1, 272
Bleaching of coloured fabrics by		Boiling heat, effect of, in arrest-	
exposure to sunshine	7, 95	ing fermentation	7, 100
Bleaching Liquid	3, 210	Boiling point	1, 260
" power of Hypochlo-		" how affected by	
rites	2, 303	the state of sur-	
Blende	5, 19	face of the con-	
" Antimonial	4, 359	taining vessel	1, 275
Blistered Steel	5, 206	" variations in	1, 274
Block Tin	5, 67	" variation of, result-	
Blood, arterial, action of nitrites		ing from the pro-	
on	18, 394	sence of foreign	
" colouring matter of	18, 386	bodies	1, 276
" coagulation of	18, 319	Boiling points of aqueous solutions,	
" fat of	16, 486	tables of	1, 269, 270
" occurrence of syntonin in . .	18, 268	" of Hydrocarbons,	
" phenomena exhibited by,		table of	7, 154
" during fermentation	7, 103	" of organic com-	
" preparation of cratinine		pounds	7, 55
from	10, 256	" of organic com-	
" spectrum of	18, 389—394	pounds, effect	
" -corpuscles, globulin of . . .	18, 332	produced on, by	
" -crystals of doubtful nature .	18, 403	addition and sub-	
" -fibrin	18, 319	traction of dif-	
" -red	18, 386, 395	ferent elements	7, 57
Blowpipe-flame	2, 32	" rise of, in successive	
" coloration of, by		terms of homolo-	
horny tissue, ge-		gous series	7, 55
latin, chondrin,		" table of	1, 291
chitin, and albu-		Bole	3, 418
minous sub-		Bole of Sinope	3, 414
stances	18, 257	Boloretin	17, 435
Blue colouring matter of Berries	16, 528	Bone, organic basis of	18, 352
" " Roots	16, 531	Bone-ash, preparation of phos-	
Blue Copper	5, 422	phorus from	2, 103
" Copper-ore	5, 415	" preparation of phos-	
" of Flowers	16, 522	phoric acid from	2, 128
" Galbanum oil	17, 238	Bone-earth	3, 192
" Indigo-vat	13, 38	" -gelatin	18, 353
" Iron-ore	5, 224	" -oil	18, 256
" Iron-stone	5, 280	" preparation of picoline	
" Metal	5, 398	from	11, 264
" Oxide of Iridium	6, 371	Bones and flesh of animals,	
" " with Alu-		supposed occurrence of arsenic	
mina ?	6, 391	in	4, 250
" " with Lime	6, 391	Bonnonian Phosphorus	1, 193
" Molybdenum	4, 53	Bonsdorff's Evaporating Receiver	1, 289
" Osmium	6, 406	Boracic Acid	2, 97
" Platinum	6, 282	" action of on alcohol	8, 213
" Pigment of the Bile	18, 73	" hydrofluates of	2, 363
" Prussian	7, 435, 437	" solution of, in alco-	
" Vitriol	5, 427	hol	8, 263

Boracic Acid and Potash, racemate of	10, 350	Borate of Zinc	5, 17
„ and Potash, tartrate of	10, 280	„ Zirconia	3, 344
„ and Soda, tartrate of	10, 281	Borates, metallic	2, 99
„ Soda and Potash, racemate of	10, 352	„ metallic compounds of, with double silicates	3, 453
„ with Tartaric Acid	10, 272	Borax	3, 87
Boracic Ether, terbasic	8, 394	„ compound of, with cane-sugar	15, 284
Boracite	3, 281	„ compound of, with hæmatoxylum	16, 291
„ electrical properties of	1, 320	„ fused, electrolysis of	1, 460
Boraginaceous Plants, nitrogenous substances occurring in	18, 452	„ with Platinous oxide	6, 324
<i>Borago off. eremacausis</i> of extract of	7, 92	<i>Borax tartarisata</i>	10, 283
Borates of Alumina	3, 309	„ and Potash, tartrate of	10, 283
„ Ammonia	2, 435	Bordeaux Turpentine	18, 17
Borate of Anhydride, tribasic	11, 46	Boric Fluoride, sulphate of	2, 364
Borates of Baryta	3, 140	Boride of Iron and Potassium	5, 268
Borate of Bismuth	4, 433	„ Nitrogen and Copper?	5, 448
„ Cadmium	5, 56	„ „ Zinc?	5, 36
Borate, Chromic	4, 122	„ Platinum?	6, 286
„ Chromous	4, 122	„ Potassium	3, 25
„ of Cobalt	5, 329	Borneene	14, 312
„ Cupric	5, 415	„ from the camphor-oil of <i>D. yabalanops Camphor</i>	14, 313
„ of Ethyl	12, 512	Borneo-camphor, solid	14, 332
„ Ferric	5, 222	Borneol	14, 332
„ Ferrous	5, 222	„ Alcohol	14, 332
„ of Lead	5, 128	„ Benzoate	14, 355
„ „ fused, electrolysis of	1, 463	„ Hydrochlorate	14, 353
„ of Lime	3, 189	„ Lævo-rotatory	14, 334
„ Lithia	3, 128	Borofluoride of Copper	5, 443
„ Magnesia	3, 230	„ Lead	5, 151
„ „ hydrofluat	3, 243	Boron	2, 95
„ Magnesia and Ammonia	3, 245	„ Ammoniofluoride of	2, 489
„ „ and Potash	3, 249	„ aqueous solution of	2, 96
„ „ and Soda	3, 251	„ chloride of	2, 327
„ Manganous	4, 214	„ fluoride of	2, 362
„ Methyl, terbasic	7, 294	„ and Lithium, fluoride	3, 131
„ Molybdic Acid	4, 58	Boronitride of Lead?	5, 158
„ „ Oxide	4, 57	Boronitride of Potassium	3, 70
„ Molybdous Oxide	4, 57	Borosilicate of Lead-oxide	5, 165
„ Nickel	5, 368	„ Lime	3, 392
„ Potash	3, 25	Boruretted Hydrogen Gas	2, 100
„ Quinine	17, 275	<i>Boswellia serrata</i> , resin of	17, 427
„ Silver	6, 147	Botany Bay, yellow resin of	17, 386
„ Soda	3, 87	„ Resin, volatile oil of	14, 362
„ Stannic	5, 77	Botany, Chemical, subjects of	7 1
„ of Strontia	3, 171	Böttger's Electrotype apparatus	1, 505
„ Tantalum Acid	4, 4	Botryogen	5, 274
„ Thoria	3, 332	Botryolite	3, 393
„ Uramic	4, 170	Bottle-glass	3, 379
„ Vanadic	4, 90	Bottom-yeast	15, 268
„ of Vanadous Sulphide	4, 94	Boucherie's process for saturating wood with different liquids	7, 115
„ Yttria	3, 286	Boulangerite	5, 176
		Bournonite	5, 487

Boyle, his experiments on the vacuum	1, 4	Bromanisol	12, 262
Bram, preparation of cerebrin from	16, 480	Bromanisio-nitranisic acid	13, 141
„ preparation of lecithine from	13, 375	Bromanchlonaphthone, A, Laurent's	14, 79
„ -fat, phosphoretted	16, 484	Bromanthracene, bromide of	16, 168
„ preparation of furfural from	10, 371	Bromates	2, 278
Branches of Chemistry	1, 2	Bromate of Alumina	3, 315
Branchite	18, 249	„ Ammonia	2, 469
Brandt, his discovery of Phosphorus	1, 4	„ Baryta	3, 156
Brandt's Phosphorus	2, 102	„ Bismuth-oxide	4, 438
Brandy-vinegar	8, 284	„ Cadmic oxide	5, 60
Braslin	17, 512	„ Cerous oxide	3, 270
Brass	5, 479	„ Cobalt-oxide	5, 336
„ Platinum deposits on	6, 276	„ Cupric oxide	5, 437
Brassica oils	17, 551	„ Chromic oxide	4, 130
<i>Brayera anthelmintica</i> , acid bitter res.n of	18, 123	„ Ethyllostannethyl	9, 106
Braziers' solder	5, 480	„ Ferric oxide	5, 251
Brazilian Clove, resin of	17, 450	„ Lanthanum	3, 279
Brazil-nut oil	16, 398	„ Lead-oxide	5, 115
Brazil-wood, colouring matter of	17, 542	„ Lime	3, 205
„ extract, artificial bitter or tannin of	11, 228	„ Luthia	3, 130
„ preparation of styphnic acid from	11, 229	„ Magnesia	3, 241
Brean	17, 421	„ Manganous	4, 227
Bicant's method of saturating wood with different liquids	7, 115	„ Mercuric	6, 45
Breidin	17, 398	„ Mercuric, with Mercuric Amide	6, 83
Bren	17, 397	„ Mercurous	6, 44
Bienhaupt's crystallographical nomenclature	1, 17	„ Mercurous, with Ammonia ?	6, 83
Breithauptite	5, 422	„ of Methyllostannethyl	9, 104
Brevicite	3, 435	„ Nickel-oxide	5, 377
Brewsterite	3, 447	„ Palladium	6, 348
Brightness of Flames, conditious of	2, 30	„ Platinous	6, 293
<i>Brindonia indica</i> , fat of	16, 387	„ of Potash	3, 54
British Bell-metal	5, 488	„ Silver	6, 160
Brochantite	5, 425	„ Soda	3, 110
Bromacetates	12, 532	„ Stannous	5, 84
Bromacetic Acid	12, 532	„ of Stibethylum	10, 528
„ Ether	12, 534	„ Strontia	3, 177
Bromacetone	13, 464	„ Uranic	4, 179
Bromal	9, 188	„ of Yttria	3, 289
Bromaloin	16, 464	„ Zinc	5, 80
Bromanilamic Acid	11, 238	Bromazoxybenzene	11, 342
Bromanilamide	11, 239	Bromenchlonaphthose, A, Laurent's	14, 78
Bromanil	11, 172	Bromeric acid	17, 560
Bromanic Acid	11, 171	Bromethose	9, 187
Bromaniline	11, 278	Bromethylene, Bromide	13, 502
Bromanilate of Ethyl	13, 134	Bromexanthic Acid	17, 535
„ Methyl	13, 133	Bromhchein	15, 444
„ Silver	13, 133	Bromhydril	11, 172
Bromanisic Acid	13, 132	Bromhydrin, glycolic	13, 428
		„ hexaglyceric	13, 576
		Bromhydrius, preparation of	13, 573
		Bromhydrochlorhydrin	13, 578
		Bromic Acid	2, 277
		Bromide of Acetyl	9, 187; 10, 536
		„ Acetyl, action of, on glycerin	13, 580

Bromide of Acetostannethyl	9, 102	Bromide of Iodine	2, 285
" Aluminum	3, 314	" Lead	5, 144
" Amidogen	2, 469	" Lead and Potassium	5, 162
" Ammonium	2, 469	" Lead and Sodium	5, 163
" Anyl	9, 42	" Magnesium	3, 210
" Anisyl	13, 132	" Manganese	4, 227
" Antimony	4, 364	" Mercuric	6, 42
" Arsenic	4, 283	" Mercuric, with Alkal-	
" Barium	3, 156	sodium	9, 323
" Barium with Cyanide of Mercury	8, 27	" Mercurous	6, 42
" Benzamide	12, 142	" of Mercury and Ammonium	6, 83
" Benzoyl	12, 107	" Mercury and Barium	6, 106
" Bismuth	4, 438	" Mercury and Hydrogen	6, 44
" Bromanthracene	16, 168	" Mercury and Iron	6, 129
" Bromethylene	13, 532	" Mercury and Magnesium	6, 109
" Bromopropylene	13, 552	" Mercury and Man-	6, 116
" Bronaphthium, Laurent's	14, 34, 35	" Mercury and Potassium	6, 101
" Butyl	10, 101	" Mercury and Sodium	6, 104
" Butylene	10, 104	" Mercury and Strontium	6, 107
" Cacodyl	9, 341	" Methyl	7, 286
" Cadmium	5, 59	" Methylene	13, 391
" Cadmium and Potassium	5, 64	" Methyloplumbethyl	9, 108
" Caputene	14, 515	" Methylostannethyl	9, 103
" Calcium	3, 204	" Nickel	5, 376
" Calcium with Ammonia	3, 214	" Nitrogen	2, 469
" Calcium with Cyanide of Mercury	8, 23	" Palladium	6, 348
" Camphor	14, 318	" Phosphorus	2, 281
" Capryl	13, 194	" Platinum	6, 292
" Carbon, solid	7, 341	" Potassium	3, 53
" Cerium	3, 270	" Potassium with Cyanide of Mercury	8, 20
" Cetyl	16, 369	" Propylene	9, 397; 13, 552
" Chlorostilbene	12, 170	" Salicyl	12, 289
" Chloroxethose	9, 224	" Selenethyl	8, 356
" Chromium	4, 130	" Selenium	2, 285
" Cobalt	5, 335	" Silicon	3, 360
" Cupric	5, 436	" Silver	6, 159
" Cuprous	5, 435	" Silver, paper impregnated with	1, 176
" of Cyanogen	8, 139	" Sodium	3, 109
" Cyanogen, solid	9, 462	" Sodium with Cyanide of Mercury	8, 21
" Cynyl and Hydrogen	14, 214	" Spiroyl	12, 284
" Ethyl	8, 365, 12, 513	" Stannethyl	9, 98
" Ethyl, action of mercuric oxide on	13, 417	" Stannic	5, 84
" Ethyl, action of water on	13, 418	" Stannous	5, 84
" Ethyl, preparation of	13, 451	" of Stibethyl	9, 83; 10, 526
" Ethylene-stannethyl	9, 100	" Stibethylum	10, 528
" Ethylidene	13, 451	" Stibmethylum	7, 327
" Ethylostannethyl	9, 105	" Stilbene	12, 170
" Ferric	5, 250	" Strontium	3, 176
" Ferrous	5, 250	" Strontium with Cyanide of Mercury	8, 22
" of Glucinum	3, 299		
" Gold	6, 214		

Bromide of Styrol . . .	13, 15	Bromine Salts . . .	2, 9
„ Sulphur . . .	2, 283	„ sources of . . .	2, 272
„ Telluramyl . . .	11, 45	„ substitution of, for Hydrogen . . .	7, 73
„ Tellurethyl . . .	8, 385	„ substitution of, for Hydrogen in organic compounds . . .	7, 122
„ Tellurium . . .	4, 410	Bromodiform . . .	7, 336
„ Telluromethyl . . .	10, 494	Bromosatic Acid . . .	13, 70
„ Tetrethylum . . .	9, 68	Bromosatin . . .	13, 69
„ Thorinum . . .	3, 334	Bromonaphtalase, <i>see</i> Bibromonaphtalin.	
„ Thorinum and Potassium . . .	3, 336	Bromonaphtese, <i>see</i> Bibromonaphtalin.	
„ Tin . . .	5, 84	Bromonaphtalase, <i>see</i> Terbromonaphtalin.	
„ Triethylphosphine . . .	12, 525	Bromonaphtese, <i>see</i> Terbromonaphtalin.	
„ Uranium . . .	4, 179	Bromo-aurate of Barium . . .	6, 233
„ Valeryl . . .	11, 527	„ Magnesium . . .	6, 234
„ Yttrium . . .	3, 289	„ Manganese . . .	6, 237
„ Zinc . . .	5, 29	„ Potassium . . .	6, 228
„ Zirconium, hydrated . . .	3, 345	„ Sodium . . .	6, 232
Bromides, Metallic . . .	2, 285	„ Zinc . . .	6, 239
„ Metallic, action of, on Alcohol . . .	13, 418	Bromobenzoic Acid . . .	12, 107
„ Metallic, Compounds of, with Ammonia . . .	2, 427	Bromobichlorhydrin . . .	13, 578
„ Metallic, Electrolysis of . . .	1, 456	Bromobichloronaphtalin . . .	14, 72
Brominated Oils . . .	16, 316	Bromobinitronaphtalin . . .	14, 92
„ Oil of Turpentine . . .	14, 407	Bromoboiacic acid . . .	2, 281
Bromine . . .	2, 271	Bromobrucine . . .	17, 535
„ absorption of volatile oils by . . .	7, 165	Bromocaproic Acid, formation of leucic acid from . . .	16, 536
„ aqueous solution of . . .	2, 276	Bromocaprylene, Hydrobromate . . .	13, 216
„ atomic weight of . . .	2, 275	Bromocarbolic Acid . . .	11, 168
„ chloride of . . .	2, 350	Bromocarbonate of Lead . . .	5, 145
„ -compound of Bis-methyl . . .	9, 89	Bromochloride of Carbon . . .	9, 219
„ compound of, with Chloride of Sulphur . . .	2, 350	<i>Biomochlonaphtune</i> , B, Laurent's . . .	14, 82
„ compounds of, with Nuclei . . .	7, 212	Bromochloronaphtalin, bihydrochlorate of . . .	14, 72
„ compound of, with Starch . . .	15, 100	Bromocinchonine . . .	17, 235
„ electrolysis of aqueous solution of . . .	1, 451	Bromocinnamic Acid . . .	13, 294
„ expansion of, by heat . . .	1, 227, 230	Bromocodeine . . .	17, 37
„ history of . . .	2, 272	Bromocomenic Acid . . .	11, 392
„ hydrate of . . .	2, 276	Brocuminol . . .	14, 165
„ hydrochlorate of . . .	2, 350	Bromocumyl, hydride of . . .	14, 165
„ memoirs relating to . . .	2, 271	Bromocymene, hydrobromate of . . .	14, 214
„ -nuclei . . .	7, 170	Bromodichloride of Glycerol . . .	13, 578
„ -nuclei, aldehydes of . . .	7, 194	Bromoferrocyanide of Ammonium . . .	7, 451
„ in organic compounds . . .	7, 5	Bromoform . . .	7, 339
„ preparation of . . .	2, 273	„ existence of, in the mother-liquor of the Schönebeck salt-spring . . .	10, 499
„ properties of . . .	2, 275	Bromoguaiaretic Acid . . .	17, 245
„ replacement of, by Amidogen . . .	7, 74	Bromohydrocarotin . . .	17, 55
„ replacement of, by Hydrogen . . .	7, 74	Bromoleic Acid . . .	17, 101
„ replacement of, by Sulphur . . .	7, 75	Bromomethylselenous Acid . . .	10, 492
		Bromomeconin . . .	14, 438
		Bromomercurate of Ammonia . . .	6, 82
		„ Strychnine . . .	17, 497
		Bromonaphtalase, <i>see</i> Bromonaphtalin . . .	14, 76

- Bromonaphthase, *see* Bromonaphthalin 14, 32
- Bromonaphthalin . . . 14, 32
- " chloride of, *see* Hydrochlorate of Chlorobromonaphthalin.
- Bromonaphthyl, Bromide, *see* Bibromonaphthalin . . . 14, 32
- Bromonitroharmin 16, 113
- Bromopalladate of Barium .. 6, 355
- " Manganese 6, 356
- " Potassium 6, 353
- " Zinc .. 6, 356
- Bromopapaverine 17, 261
- Bromophenol . . . 11, 168
- Bromophenyl, Benzoate of 12, 88
- Bromophenylmesatin . . . 13, 83
- Bromophloretin . . . 16, 10
- Bromophloroglucin . . . 15, 68
- Bromopianyl . . . 14, 438
- Bromopierin .. 11, 217
- Bromoplatinate of Barium . . 6, 327
- " Calcium 6, 329
- " Magnesium . 6, 329
- " Manganese 6, 332
- " Potassium 6, 322
- " Sodium 6, 326
- " Zinc 6, 333
- Bromoplatinic Acid .. 6, 292
- Bromopropionic Acid . . . 9, 428
- Bromopropylene-bromide . . 13, 552
- Bromopyromeconic Acid . . . 10, 445
- Bromosalhydramide .. 12, 348
- Bromosalicene-sulphide ... 12, 287
- Bromosalicylic Acid .. 12, 285
- Bromosalicylic Acid .. 12, 284
- Bromosamide . . . 12, 348
- Bromosantonin . . . 16, 258
- Bromostannic Acid . . . 5, 84
- Bromostannous Acid .. 5, 84
- Bromostearic Acid . . . 17, 145
- Bromostearone . . . 17, 130
- Bromosulphonaphthalates ... 14, 33
- Bromotellurate of Potassium . 4, 420
- Bromoterechloronaphthalin ... 14, 78
- Bromoterebene, 14, 78
- Bromothionessal . . . 12, 189
- Bromoxaform ... 9, 190
- Brom-sassafras oil ... 14, 168
- Bromure de Chlorébronaphthine*, Laurent's .. 14, 76
- " *Chloroæthrose* . . . 9, 219
- Bronaphtase, sub-chloride of, *see* Hydrochlorate of Chlorobromonaphthalin.
- Bronaphtin .. 14, 34
- Bronaphtise, chloride of, *see* Bihydrochlorate of Bichlorobibromonaphthalin 14, 76
- Bronaphtose, *see* Quadribromonaphthalin . . . 14, 35
- Bronze . . . 5, 481
- Bronzite, vanadic ... 3, 404; 4, 81
- Brookite . . . 3, 474
- Brown Coal, *see* Lignite.
- Hæmatite . . . 5, 197
- Iron-ore . . . 5, 196
- Lead-ore . . . 5, 149
- Nitrate of Chromium . . 4, 113
- Oxide of Chromium . . . 4, 140
- resinous body obtained from Acetone . . . 9, 13
- " Sulphate of Chromium . . 4, 128
- Brucine . . . 17, 572
- " compound of, with PicROTOXINE . . . 17, 585
- " compound of, with Iodine . . . 17, 577
- " decompositions of .. 17, 572
- " hydrate of . . . 17, 576
- " preparation of . . . 17, 573
- " properties of . . . 17, 572
- " reactions of, with Phosphomolybdic Acids 17, 581
- " solutions of .. 17, 577, 585
- " and Bibromide of Ethylene, compounds obtained from ... 17, 588
- Brucine Salts :
- Antitartrate .. 17, 583
- " Carbonate 17, 578
- " Chlorate .. 17, 580
- " Chloraurate ... 17, 581
- " Chloromercurate 17, 581
- " Chloroplatinate 17, 582
- " Chromate .. 17, 581
- " Dextrotartrate . 17, 583
- " Hydriodate .. 17, 580
- " Hydrochlorate 17, 580
- " Hydroferricyanate 17, 583
- " Hydroferrocyanate .. 17, 583
- " Hydrofluuate .. 17, 581
- " Hydroplatinocyanate 17, 583
- " Hydrosulphate . 17, 587
- " Hydrosulphocyanate ... 17, 583
- " Hyposulphite . 17, 579
- " Iodate .. 17, 579
- " Iodomercurate 17, 581
- " Nitrate 17, 581
- " Perchlorate 17, 580
- " Periodate 17, 579
- " Phosphate 17, 578
- " Sulphate 17, 579

Brucine Tartrate	17, 583	Butyl-caproyl	10, 564
" " with Tartrate		Butyl-hexyl	11, 413
of Antimony	17, 584	Butylene	10, 66
Biugnatelli's Fulminating		Acetate	13, 556
Silver	9, 303	Bromide	10, 104
Brunolic Acid	15, 163	Chloride	10, 103
Brunswick Green	5, 441	Hydrate	13, 556
Bryoidin	17, 397	Butylic Alcohol	10, 71
Bryonin	17, 511	Alcohol, formation of in	
Bryoretin	17, 541	vinous fermentation	15, 276
Bucaramanga, earth-resin from	17, 435	Ether	10, 69
Bucholzan circuit	1, 397	Glycol	13, 556
Bucholzite	3, 414	Mercaptan	10, 99
Buck-bean, second body obtained		Urethane	10, 148
from	16, 32	Butylomercaptides	10, 100
preparation of Meny-		Butyrate of Baryta	10, 555
anthin from	16, 30	Potash	10, 554
Buffalo-horn, composition of	18, 348	Soda	10, 554
Bunsen's battery	1, 423	Butyric Acid	10, 552, 13, 560
Burbot-fat	16, 326	Ether	10, 556
Burnt Alum	3, 321	Butyricin, Glycolic	13, 433
Clay	3, 415	Butyral	10, -73
<i>Bursera balsamifera</i> , balsam ob-		-ammonia	10, 75
tained from	17, 394	Butyramide	10, 145
<i>gummifera</i> or <i>acumi-</i>		Butyranilide	11, 316
nata, resin of	17, 404	Butyrate of Allyl	13, 545
<i>gummifera</i> , gomart-resin		Ammonia	10, 84
obtained from	17, 415	Aniline	11, 263
Butamyl	11, 5	Baryta	10, 85
<i>Butea frondosa</i> , oil from the seeds		Butyric	10, 88
of	17, 94	Cetyl	16, 379
Butter of Antimony	4, 365	Cholesteryl	13, 118
cow's milk	16, 387	Cinchonidine	17, 227
" caprylic		Copper	10, 87
acid in	13, 190	Ethyl	10, 91
cow's milk, preparation		Iodine	10, 87
of butyric acid from	10, 80	Lime	10, 86
cow's milk, preparation		Lime and Baryta	10, 86
of caproic acid from	11, 415	Lead	10, 86
cow's milk, preparation		Magnesia	10, 86
of myristic acid from	16, 211	Mercurous	10, 88
human milk	16, 387	Methyl	10, 90
tin	5, 89	Picoline	11, 271
Butyl	10, 67, 563	Potash	10, 84
from Boghead cannel coal	13, 386	Silver	10, 88
Acetate	10, 137	Soda	10, 85
Bromide	10, 101	Stibmethylethylum	13, 503
Carbonate	10, 104	Strontia	10, 86
Chloride	10, 102	Zinc	10, 86
Cyanide	11, 121	Butyric acid	10, 77
Formate	10, 108	separation of, from	
Hydride	10, 69	valerianic acid	11, 27
Iodide	10, 100	Butyric Anhydride	10, 88
Nitrate	10, 106	Butyrate	10, 88
Oxide	10, 69	Fermentation	7, 98; 10, 81
Sulphate	10, 105	Butyrin	10, 92
Butylamine	10, 146	Butyrodulcitan	15, 387
Butyl-amyl	10, 564	Butyrogucose	15, 332
Butyrate of Ethyl	10, 70	Butyroleic acid	16, 365

Butyrolimnodic acid, <i>see</i> Bog-		Butyryl, Chloride	10, 139
butter		Buxine	17, 173
Butyromannitans	15, 375	Byssolite	3, 407
Butyrone	10, 96	Byssus of Acephalæ	18, 372
Butyronitrile	10, 149	<i>Byssus phosphorea</i> , emission of	
<i>Butyrum Antimonii</i>	4, 365	light by	1, 188

C.

Cacao-beans, preparation of Theo-		Cadmio Hydrochlorate	5, 60
bromine from	12, 471	" Hypophosphite	5, 56
Cacao-butter	16, 387	" Hyposulphate	5, 58
" -red	16, 530	" Iodate	5, 59
Cacodyl	9, 316	" Isobiglycolethylenate	15, 236
" Biomide	9, 311	" Kinate	16, 230
" Chloride	9, 343	" Lactate	11, 489
Cacodylic Chloride, Cacodylate		" Metaphosphate	5, 57
of?	9, 346	" Molybdate	5, 65
Cacodyl, Chloride, hydrated	9, 345	" Nitrate	5, 61
" Chlorobibromide	13, 495	" Oxalate	9, 152; 13, 525
" Cyanide	9, 349	" Oxide	5, 54
" Fluoride	9, 348	" " hydrated	5, 54
" Iodide	9, 339	" " with Asparagme	10, 247
" Oxide	9, 320; 13, 495	" Perchlorate	5, 60
" Oxybromide	9, 341	" Phosphate	5, 56
" Oxychloride	9, 345	" Phosphite	5, 56
" Oxyiodide	9, 340	" Piperate	15, 10
" Perbromide, basic	9, 342	" Pyrophosphate	5, 56
" Perchloride?	9, 346	" Pyrotartrate	11, 94
" " basic	9, 347	" Saccharates	11, 520
" Selenide	9, 339	" Salts	5, 55
" Sulphides	9, 332, 334	" Selenite	5, 59
" Terchloride	13, 494	" Styphnate	11, 233
of Butyric Acid	9, 413	" Succinate	10, 124
Valerianic Acid	11, 125	" Sulphate	5, 58
Cacodylate of Cacodylic Chloride?	9, 346	" Sulphite	5, 58
Cacodylates, metallic	9, 330	" Sulphovinate	3, 425
Cacodylic Acid	9, 327	" Tartrate	10, 311
Cacotheline	17, 358	" Tungstate	5, 65
Cadmammonium Oxalate	13, 525	" Valerate	11, 34
Cadmia	5, 1	" Vanadate	5, 65
<i>Cadmia formacum</i>	5, 10	Cadmio-calcic Hypophosphite	5, 64
Cadmio Acetate	8, 310	" -potassic Oxalate	13, 526
" Alloxanate	10, 166	" " Sulphate	5, 63
" Ammonio-bromate	5, 63	" -sodic Oxalate	13, 526
" Ammonio-hyposulphate	5, 61	" -uronic Acetate	13, 445
" Ammonio-sulphate	5, 62	Cadmium	5, 52
" Benzoate	12, 41	" Alloys	5, 66
" Borate	5, 56	" Amalgam	6, 124
" Bromate	5, 60	" Ammonio-bromide	5, 62
" Carbonate	5, 55	" Ammonio-chloride	5, 63
" Chrysammate	12, 5	" Ammonio-iodide	5, 62
" Croconate	10, 393	" Ammonio-oxide	5, 61
" Cinnamate	13, 276	" Ammonio-sulphocy	
" Citrate	11, 454	amide	3, 87
" Formiate	7, 279	" Argentocyanide	3, 31
" Hydrobromate	5, 60	" Bromide	5, 59
		" Chloride	5, 60

Cadmium, Chloride, with Hydrochlorate of Chlorine	13, 250	Caffeine with Cyanide of Mercury	13, 234
„ Chloride, with Potassium	15, 22	„ Hydrate	13, 231
„ Chloride, with Urea	13, 404	„ Hydrochlorate	13, 232
„ Chloroaurate	6, 239	„ Nitrate	13, 232
„ Chloroplatinate	6, 335	„ with Nitrate of Silver	13, 232
„ Cobaltidecyanide	7, 495	„ Sulphate	13, 231
„ Cuprocyanide	8, 7	„ Tannate	13, 235
„ Cyanide	9, 507, 7, 426	Caffeitanic acid	15, 504
„ Fluoride	5, 61	Cancedrin	18, 218
„ with Fluxes	5, 64	Canccetin	18, 141, 146
„ Iodide	5, 59	Canccin, or Canccic acid	15, 312; 18, 143
„ Manganidecyanide	7, 426	Cajeput, oil	14, 334, 510
„ Nitride	5, 61	„ oil, oil obtained from	16, 151
„ Oxides	5, 53	Cajputene	14, 510
„ Persulphomolybdate	5, 65	„ Bromide	14, 515
„ Phosphide	5, 56	„ Chloride	14, 514
„ Protoxide	5, 54	„ Hydrates	14, 512
„ Salts, solubility of, in alcohol	8, 270	„ Hydrochlorates	14, 514
„ Silico-fluoride, hydrated	5, 64	Calamine	5, 1
„ Suboxide	5, 53	„ electric	1, 320
„ Sulphantimoniate	5, 66	„ siliceous	5, 46
„ Sulpharsenate	5, 66	Calamus Draco, resin of	17, 387
„ Sulpharsenite	5, 65	Calcareous Epidote	3, 429
„ Sulphide	5, 57	„ Hamotomo	3, 446
„ Sulphocarbonate	5, 58	„ Mesotype	3, 438
„ Sulphocyanide	8, 87	„ Uranite	4, 191
„ Sulphomolybdate	5, 65	„ Uran-mica	4, 191
„ Sulphotellurite	5, 66	Calcination	1, 271
„ Sulphotungstate	5, 65	Calcio-antimonie Tartrate	10, 308
„ and Ammonium, chloride of	5, 63	„ -chronic Ovalate	9, 112
„ and Copper, alloy of	5, 181	„ -ferric Ovalate	9, 160
„ and Iron, cyanides of	7, 490	„ -uranic Acetate	13, 414
„ and Lead, cyanide of	7, 428	Calcium	3, 181
„ and Mercury, iodide of	6, 124	Alloys	3, 220
„ and Platinum, alloy of	6, 335	Amalgam	6, 107
„ and Potassium, bromide of	5, 64	Argentocyanide	8, 31
„ and Potassium, chloride of	5, 64	Bromide	8, 204
„ and Potassium, cyanide of	7, 426	Bromide of, with Ammonia	3, 214
„ and Potassium, iodide of	5, 64	Bromide of, with Cyanide of Mercury	8, 23
„ and Sodium, chloride of	5, 64	Bromoplatinate	6, 329
Cadmium-ethyl	12, 530	Chloride	3, 206
Caffeic acid	15, 504	Chloride, with Acetate of Lime	8, 302
Caffeine	13, 223	Chloride, Alcoholate of	8, 267
„ with Chloride of Mercury	13, 233	Chloride, with Ammonia	3, 215
„ Chloroaurate	13, 233	Chloride, with Aurate of Lime	6, 234
„ Chloroplatinate	13, 234	Chloride, with Carbonate of Lime	3, 219
		Chloride, Chromate of	4, 154
		Chloride, with Cyanide of Mercury	8, 23
		Chloride, with Lactate of Ethyl	11, 497

Calcium Chloride, with Lactate	11, 251	Cane-sugar, decomposed	4, 424
of Lime	..	sulphate	4, 44
Chloride, with Oxalate	9, 132	Sulphovanadate	4, 102
of Lime	..	Thionurate	10, 185
Chloride, with Triphosphate of Lime	3, 219	and Copper, Sulphide of	5, 463
Chloro-aurate	6, 231	and Gold, Cyanide of	8, 42
Chloropalladate	6, 355	and Iron, Sulphide of	5, 274
Chloroplatinate	6, 329	and Hydrogen, Hydrated	..
Cyanide	7, 417, 12, 495	Selenide of	3, 202
Ferricyanide	7, 483	and Hydrogen, Hydrated	..
Ferrocyanide	7, 482	Sulphide of	3, 197
Fluoride	3, 212	and Mercury, Chloride of	6, 108
Fluoride of, with Sulphate of Barium	3, 219	and Mercury, Iodide of	6, 107
Fluoride of, with Cupric Sulphate	5, 463	and Potassium, Ferrocyanide of	7, 484
Fluoride of, with Sulphate of Lime	3, 220	and Silver, Fluoride of	3, 393
Fluoride of, with Sulphide of Barium	3, 218	and Silver, Chloride of	6, 182
Fluoride of, with Sulphide of Calcium	3, 220	and Silver, Citrate of	11, 461
Fluoboride, hydrated	3, 213	and Sodium, Sulphide of	3, 217
Hydrated Pentasulphide of, with Lime	3, 198	and Titanium, Fluoride of	3, 487
Hydrothiosulphocyanide	8, 101	and Zinc, Cyanide of	7, 425
Hyposulpharsenite	4, 305	Calc-spar	3, 186
Iodide	3, 203	Calculation, Stoichiometrical	1, 61
Iodide with Cyanide of Mercury	8, 23	Calculi, biliary, consisting of bile-pigments	18, 70
Mellonide	9, 393	<i>Calendula officinalis</i> , emission of light by the flowers of	1, 187
Nitroprusside	8, 133	Calendulin	18, 219
Oxides	3, 181	Calf-fat	16, 388
Oxyalts, see Lime-salts.	..	Californin	18, 219
Peroxide	3, 185	<i>Calluna vulgaris</i> , Erccolin in	16, 28
Phosphide	3, 180	Callutannates	15, 515
Platinocyanide	8, 53, 10, 508	Calomel	6, 45
Platino-platincyanide	8, 53	<i>Calophyllum inophyllum</i> , oil from the seeds of	17, 94
Salts, solubility of, in Alcohol	8, 267	<i>Calophyllum inophyllum</i> , Tacamahac resin obtained from	17, 430
Selenides	3, 202	Caloric, see Heat.	..
Selenocyanide	8, 123	Calorific tints	1, 221
Sulphantimonate	4, 389	Calorimeter, Hare's	1, 410
Sulpharseniate	4, 305	Calotype process, Talbot's	1, 176
Sulpharsenite	4, 305	<i>Calurus auriceps</i> , red pigment of the feathers of	18, 419
Sulphides	3, 196	Calx, <i>Antimony alba</i>	4, 377
Sulphide of, with Chloride of Calcium	3, 219	Camel fat	16, 388
Sulphide of, with Fluoride of Calcium	3, 220	<i>Camelina</i> , oil of various species of	17, 99
Sulphide of, with Lime	3, 219	<i>Camelina sativa</i> , oil from the seeds of	16, 315
Sulphocyanide	8, 85	Camphene	14, 271
Sulphocyanide of, with Cyanide of Mercury	8, 96	Camphic Acid	14, 353
Sulphomolybdate	4, 76	Camphides	7, 24
Sulphosinapate	10, 35	Camphilene	14, 277
Sulphostannate	5, 100	Camphin	15, 448
		Camphol	14, 332

Campholene	Hy-	Caffeine with C ⁺ water and of dilute	
Campholic Acid	Chino-	acids ..	15, 253, 254, 537
Alcohol		Cane-sugar, alteration of optical	
Camphor		rotatory power of,	
" Artificial		during vinous fer-	
" Bromide		mentation ..	15, 271
" Colophene from		" aqueous solution of	15, 282
" non-rotatory		" compound of, with	
" rotation of, on water		borax ..	15, 284
" of Bitter Almond Oil		" compounds of, with	
" <i>Buphtthalmum mar-</i>		bases ..	15, 283
" <i>tinum</i>		" compounds of, with	
" Cat-thyme		cupric oxide	15, 290
" Cubeba		" compounds of, with	
" <i>Iris florentina</i>		iron oxides	15, 290
" Lily of the Valley		" compounds of, with	
" <i>Tangnia madagas-</i>		sodium chloride	15, 283
" <i>cariensis</i>		" compounds of, with	
" oil, from <i>Laurus Cam-</i>		water	15, 282
" <i>phora</i>		" crystalline form of	15, 245
" tree, see <i>Dryobalanops</i> .		" decomposition of, by	
Camphoric Acid		acetate of zinc	15, 262
Camphoramide ..		" decomposition of, by	
Camphoranil ..		acetic acid	15, 259
Camphoranilic Acid		" decomposition of, by	
Camphorates, Metallic	14, 458—463	dilute acids	15, 254, 537
Campho-resin	14, 449	" decomposition of, by	
Camphoric Acid	14, 455	ammonia	15, 260
" " copulated acids		" decomposition of, by	
" produced by	7, 227	arsenic acid	15, 259
" " isomeric modifi-		" decomposition of, by	
" cations of	14, 463	benzoic acid	15, 259
" Anhydride	14, 467	" decomposition of, by	
" Ether	14, 464	bromide of ethyl	15, 264
" " chlorinated	14, 466	" decomposition of, by	
Camphorimide	14, 484	bronine	15, 252
Camphoroidal Compound, Berze-		" decomposition of, by	
lius and Marcet's	7, 360	butyric acid	15, 259
Camphors, formation of, from		" decomposition of, by	
volatile oils by as-		chlorate of potash	15, 257
sumption of the ele-		" decomposition of, by	
ments of water	7, 167	chloride of lime	15, 252
" mixture of, with or-		" decomposition of, by	
ganic acids	7, 168	cupric salts	15, 263
" solubility of, in bisul-		" decomposition of, by	
phide of carbon	7, 168	chlorine	15, 252
Camphoryl ..	13, 342	" decomposition of, by	
Camphrene	13, 156	diastase	15, 264
Camphyl Stearate	17, 125	" decomposition of, by	
Canada Turpentine ..	18, 19	dry distillation	15, 249
<i>Canarium album</i> , resin of	17, 397	" decomposition of, by	
" <i>commune</i> , oil from the		distillation with	
nut of	17, 94	phosphoric acid	15, 257
Canaua-wax ..	18, 158	" decomposition of, by	
Cancrinite ..	3, 452	emulsin	15, 264
<i>Canella alba</i> , oil of	14, 210	" decomposition of, by	
Cane-sugar, alteration of optical		ferments	15, 265
rotatory power of,		" decomposition of, by	
by the action of		ferric chloride	15, 262

- | | | | |
|---|---------|---|--------------|
| Cane-sugar, decomposition of, in the open fire | 15, 251 | Cane-sugar, decomposition of, by sulphur | 15, 252 |
| „ decomposition of, by fluoride of boron | 15, 253 | „ decomposition of, by tartaric acid | 15, 259 |
| „ decomposition of, by gold chloride | 15, 264 | „ decomposition of, by vanadic acid | 15, 259 |
| „ decomposition of, by heat | 15, 247 | „ decomposition of, by oil of vitriol | 15, 257 |
| „ decomposition of, by strong hydrochloric acid | 15, 257 | „ decomposition of, by water | 15, 253 |
| „ decomposition of, by indigo | 15, 264 | „ estimation of | 15, 243 |
| „ decomposition of, by iodine | 15, 252 | „ humous substances formed by action of acids on | 17, 460, 462 |
| „ decomposition of, by lead-oxide | 15, 262 | „ lactic fermentation of | 15, 276 |
| „ decomposition of, by lime | 15, 261 | „ memoirs relating to | 15, 237 |
| „ decomposition of, by mercury salts | 15, 264 | „ mucous fermentation of | 15, 280 |
| „ decomposition of, by nitrate of bismuth | 15, 262 | „ percentage of, in aqueous solutions of different densities | 15, 282 |
| „ decomposition of, by nitrate of cobalt | 15, 263 | „ preparation of | 15, 241 |
| „ decomposition of, by nitric acid | 15, 258 | „ properties of | 15, 215 |
| „ decomposition of, by neutral salts | 15, 256 | „ refining of | 15, 242 |
| „ decomposition of, by osmic acid | 15, 259 | „ resolution of, into dextro- and lævo-glucose in vinous fermentation | 15, 272 |
| „ decomposition of, by oxalic acid | 15, 259 | „ solution of, in alcohol | 15, 291 |
| „ decomposition of, by oxygen or air at common temperatures | 15, 251 | „ sources of | 15, 287 |
| „ decomposition of, by permanganate of potash | 15, 251 | „ spontaneous alteration of aqueous solution of | 15, 254 |
| „ decomposition of, by peroxides | 15, 251 | „ vinous fermentation of | 16, 265 |
| „ decomposition of, by platonic chloride | 15, 264 | <i>Cannabis indica</i> , resin of | 17, 117 |
| „ decomposition of, by potash-hydrate | 15, 260 | „ <i>sativa</i> , oil from the seeds of | 16, 312 |
| „ decomposition of, by potassium | 15, 260 | Cantharides, fat of | 16, 388 |
| „ decomposition of, by silver salts | 15, 264 | Cantharidin | 14, 469 |
| „ decomposition of, by sodium | 15, 260 | Canton's Phosphorus | 1, 193 |
| „ decomposition of, by stannous and stannic chlorides | 15, 262 | Caoutchun | 14, 326 |
| „ decomposition of, by stearic acid | 15, 259 | „ Hydriodate | 14, 329 |
| „ decomposition of, by succinic acid | 15, 259 | „ Hydrobromate and Hydrochlorate | 14, 329 |
| | | Caoutchouc | 17, 343 |
| | | „ diffusion of gases through | 1, 25 |
| | | „ fossil | 17, 436 |
| | | „ oil | 17, 317 |
| | | „ preparation of ethylene from | 8, 164 |
| | | „ vulcanised | 17, 349 |
| | | Capacities of bodies for heat | 1, 238 |
| | | Capacity of saturation | 2, 7; 7, 197 |
| | | Capers, preserved, preparation of | |
| | | „ rutin from | 16, 501 |
| | | Capillarity, electricity of | 1, 319 |

Capillary Pyrites	..	5, 370	Carapin	..	18, 219
„ Salts	..	3, 313	Caraway, crude oi o	..	14, 416
Capnomor	....	15, 161	Carbamic Ether	..	9, 274
Caprocinante ?	..	3, 410	Carbamide-carbamide	..	11, 303
Capramide	..	14, 501	Carbanilamide	..	11, 303
Caprate of Ethyl	....	14, 489	Carbanic Acid	..	12, 113, 326
Caprates, Metallic	..	14, 487	Carbanilide	...	11, 319
Capric Acid	..	14, 485	Carbanilmethylene	..	12, 117
Caproate of Amyl	..	11, 419	Carbazotic gas	..	8, 27
„ Ethyl	..	11, 419	Carbide of Cerium ?	...	3, 264
„ Methyl	..	11, 418	„ Chromium and Iron	..	5, 300
Caproates, Metallic	..	11, 416—418	„ Copper	..	5, 414
Caproene	....	11, 411	„ „ and Iron	..	5, 489
Caproic Acid	..	11, 414	„ Gold and Iron	..	6, 246
„ Alcohol	..	11, 413	„ Iridium	....	6, 375
„ Anhydride	..	11, 421	„ Iron	..	5, 202
„ Caproate	..	11, 421	„ and Aluminum	..	5, 276
„ Ether	..	11, 419	„ and Cerium	..	5, 274
Caprone	..	11, 120	„ and Glucinum	..	5, 275
Caproyl	..	11, 412	„ and Tin	..	5, 315
Capryl	..	13, 182	„ and Zinc	..	5, 314
„ Acetate	..	13, 200, 587	„ Lead ?	..	5, 122
„ Bromide	..	13, 194	„ Manganese ?	..	4, 213
„ Chloride	..	13, 195, 587	„ „ and Iron	..	5, 301
„ Iodide	....	13, 193	„ Nickel	...	5, 366
„ Margurate	..	16, 382	„ „ and Iron	..	5, 396
„ Nitrate	..	13, 198	„ Palladium	..	6, 316
„ Stearate	..	17, 124	„ „ and Iron	..	6, 357
„ Sulphide	..	13, 193	„ Platinum	..	6, 285
Caprylamine	..	13, 219	„ „ and Iron	..	6, 336
Caprylate of Ethyl	..	13, 201	„ Potassium	..	3, 17
„ Methyl ?	..	13, 199	„ Rhodium and Iron	..	6, 368
Caprylates, Metallic	..	13, 192	„ Silicon ?	..	3, 359
Caprylene	..	13, 180	„ „ and Iron	..	5, 288
„ Chloride	..	13, 568	„ „ Silver	..	6, 182
Caprylic Acid	..	13, 190	„ Silver	..	6, 116
„ Alcohol	..	13, 183, 589	„ „ and Iron	..	6, 196
„ „ violet substance	..	13, 186	„ Tungsten and Iron	..	5, 297
„ „ derived from	..	13, 186	„ Zinc ?	...	5, 13
„ Aldehyde	....	13, 187	„ Zirconium	..	3, 343
„ „ and Potash,	..	13, 168	Carbobenzide	..	12, 85
„ „ sulphide of	..	13, 168	Carbobenzoic Acid	....	12, 47
„ Anhydride	..	13, 202	Carbohumic Acid	..	17, 476
„ Ether ?	..	13, 183	Carbohydrates	..	15, 65
Caprylone	..	13, 200	„ C ¹² H ²² O ¹¹	..	15, 193, 217
Capsicin	..	17, 450	Carbohydromonic Acid	..	16, 235
Capsulascic Acid	..	16, 151	Carbolate of Amyl	...	12, 272
<i>Caput mortuum Vitrioli</i>	..	5, 195	„ Ethyl	..	12, 270
Carajuru	..	17, 19	„ Methyl	..	12, 261
Caramel, formation of, from cane-	..	15, 218	„ Metallic	..	11, 151
„ sugar	...	15, 218	Carbolic Acid, combination of	..	11, 149
„ Mitscherlich's	..	15, 336	„ with water	..	11, 145
Caramelane	..	15, 291, 539	„ decomposition of	..	11, 149
Caramelene	..	15, 292	„ hydrated	..	11, 149
Caramelin	..	15, 293, 510	„ preparation of,	..	11, 140
Caranna	..	17, 404	„ from beech-tar	..	11, 140
Carapa-bark, bitter	..	17, 314	„ preparation of,	..	11, 139
„ of	..	16, 388	„ from beech-wood	..	11, 139
„ -oil	..	16, 388	„ vinegar	..	11, 139

Carbolic Acid, preparation of, from coal-tar . . .	11, 143	Carbon, Chlorosulphide of . . .	2, 335
„ preparation of picric acid from . . .	11, 212	„ Dichloride . . .	8, 160
„ properties of . . .	11, 144	„ Dichloride, solubility of, in alcohol . . .	8, 273
„ sources and formation of . . .	11, 139	„ effect of, on the boiling points of organic com- pounds . . .	7, 57
Carbomethylic Acid . . .	7, 290	„ estimation of, in organic compounds . . .	7, 86
Carbon . . .	2, 81	„ Perchloride, sulphite of . . .	2, 337
„ amount of, in bar-iron . . .	5, 205	„ Phosphide of ? . . .	2, 149
„ „ various kinds of . . .	5, 213	„ Phosphuretted sulphide of . . .	2, 219
„ „ steel . . .	5, 207	„ Protobromide . . .	7, 341
„ atoms, increase in the number of, in organic compounds by artificial modes of transforma- tion . . .	7, 43	„ Protochloride . . .	9, 215
„ atomic weight of . . .	2, 87	„ Protochloride, sulphite of . . .	2, 339
„ in cast-iron, formation of organic compounds from . . .	7, 39	„ Sesquichloride . . .	9, 220
„ history of . . .	2, 81	„ Sulphide . . .	2, 200
„ memoirs relating to . . .	2, 81	„ Sulphide with Piperidine . . .	15, 15
„ numerical proportions of combinations of, with hydrogen . . .	7, 154	„ Sulphite of perchloride of . . .	7, 350, 354
„ inorganic compounds, not replaceable by other ele- ments . . .	7, 71	„ Sulphuretted bisulphide of . . .	2, 205
„ the only element essen- tial to organic com- pounds . . .	7, 4	„ and Barium, sulphide of . . .	3, 153
„ preparation of . . .	2, 83	„ and Calcium, sulphide of . . .	3, 202
„ properties of . . .	2, 85	„ and Lithium, sulphide of . . .	3, 129
„ sources of . . .	2, 82	„ and Magnesium, sulphide of . . .	3, 239
„ Bichloride . . .	7, 355	„ and Manganese, sulphide of . . .	4, 225
„ Bichloride, preparation of chloroform from . . .	13, 400	„ and Potassium, sulphide of . . .	3, 42
„ Bisulphide . . .	2, 200	„ and Sodium, sulphide of . . .	3, 104
„ „ copulated acids produced by, with alcohols . . .	7, 224	„ and Strontium, sulphide of . . .	3, 175
„ „ mixture of, with volatile oils . . .	7, 163	Carbonaphthalide . . .	14, 123
„ „ formation of organic com- pounds from . . .	7, 40	Carbonate of Allyl . . .	13, 543
„ „ ioduretted . . .	2, 268	„ Alumina . . .	3, 308
„ „ vapour-tension of . . .	1, 262	„ Alumina and Am- monia . . .	3, 318
„ Bromide . . .	7, 341	„ Alumina and Pot- ash . . .	3, 321
„ „ solid . . .	7, 344	Carbonates of Ammonia . . .	2, 430
„ Bromochloride . . .	9, 219	Carbonate of Ammonia, electro- lysis of . . .	1, 460
„ Chlorides 7, 355; 8, 160, 9, 215, 220 . . .	9, 215, 220	„ Ammono-chloride of Sulphur . . .	2, 436
„ „ formation of oxalic acid from . . .	13, 514	„ Amyl . . .	11, 45, 114
„ Chloride, sulphide of . . .	7, 357	„ Amylamine . . .	11, 106
		„ Atropine . . .	16, 454
		Carbonates of Baryta . . .	3, 138
		Carbonate of Baryta and Am- monia . . .	3, 163
		„ Baryta and Potash . . .	3, 164
		„ Bichloride of Sul- phur . . .	2, 337
		„ Bismuth-oxide . . .	4, 433
		„ Brucine . . .	17, 573
		„ Butyl . . .	10, 104
		„ Cadmic oxide . . .	5, 55

Carbonate of Ceric oxide	3, 264	Carbonate of Lead-oxide and Soda	5, 162
" Ceric oxide and Potash	3, 272	" and Sulphate of Lead-oxide	5, 138
" Cerous oxide	3, 264	" of Lime	3, 185
" Cerous oxide and Ammonia	3, 272	" Lime with Ammonia?	3, 214
" Cerous oxide and Lime	3, 274	" Lime and Baryta	3, 218
" Cerous oxide and Potash	3, 272	" Lime with Chloride of Calcium	3, 219
" Cinchonine	17, 206	" Lime and Soda	3, 215
" Chromic oxide	4, 122	" Lime and Strontia	3, 319
" Chromic oxide and Ammonia	4, 142	" Lime with Sulphate of Soda	3, 217
" Chromic oxide and Potash	4, 147	" Lathia	3, 127
" Chromous oxide	4, 121	" Magnesia	3, 226
" Cobalt-oxide	5, 328	" Magnesia and Ammonia	3, 244
" Cobalt-oxide and Ammonia	5, 339	" Magnesia and Lime	3, 253
" Cobalt-oxide and Potash	5, 343	" Magnesia and Potash	3, 249
" Cobalt-oxide and Soda	5, 314	" Magnesia and Soda	3, 251
" Codene	17, 32	" Manganous oxide	4, 213
" Cupric oxide	5, 414	" Manganous oxide and Ammonia	4, 231
" Cupric oxide with Ammonia	5, 448	" Mercurialine	18, 200
" Cupric oxide and Potash	5, 458	" Mercuric oxide	6, 15
" Cupric oxide and Soda	5, 461	" Mercurous oxide	6, 15
" Cupric oxide and Zinc-oxide	5, 480	" Methylamine	7, 316
" Ethyl	8, 392	" Methylplumbethyl	9, 107
" Ethylamine	9, 56	" Molybdic oxide and Ammonia	4, 68
" Ethylmethyleonine	13, 173	" Molybdic oxide and Potash	6, 70
" Ethylomethyle	8, 393	" Molybdic oxide and Soda	4, 73
" Ethylstrychnine	17, 511	" Molybdous oxide and Ammonia	4, 68
" Ferric oxide?	5, 222	" Morplene	16, 430
" Ferric oxide and Ammonia	5, 260	" Neurine	18, 381
" Ferric oxide and Potash	5, 268	" Nickel-oxide	5, 366
" Ferric oxide and Soda	5, 272	" Nickel-oxide and Ammonia	5, 379
" Ferrous oxide	5, 219	" Papaverine	17, 258
" Ferrous oxide and Magnesia	5, 274	Carbonates of Potash	3, 18
" Glucina	3, 296	Carbonate of Potash, Berthollet's neutral	3, 22
" Glucina and Ammonia	3, 300	" Potash and Charcoal, formation of organic compounds in the preparation of potassium from	7, 41
" Glucina and Potash	3, 301	" Potash, with Chloride of Potassium	3, 71
" Glucina and Soda	3, 302	" Potash with Fluoride of Calcium	3, 215
" Harmaline	16, 117	" Potash with Niobate of Potash	4, 18
" Lanthanum	3, 278		
Carbonates of Lead-oxide	5, 122		
Carbonate of Lead-oxide and Lime	5, 164		

Carbonate of Potash with Sulphate of Potash	4, 150	Carbonate of Yttria and Potash	3, 290
„ Protochloride of Sulphur	2, 339	„ Yttria and Soda	3, 290
„ Quinine	17, 275	Carbonates of Zinc-oxide	5, 13
„ Silica and Potash	3, 373	Carbonate of Zinc-oxide and Ammonia	5, 36
„ Silica and Soda	3, 386	„ Zinc-oxide and Potash	5, 43
„ Silver-oxide	6, 146	„ Zinc-oxide and Soda	5, 45
„ Silver-oxide and Potash	6, 178	„ Zirconia	3, 344
Carbonates of Soda	3, 77	„ Zirconia and Ammonia	3, 347
Carbonate of Soda, formation of humous substance by heating, with phosphorus	17, 461	„ Zirconia and Potash	3, 347
„ Soda and Potash	3, 119	Carbonates, general properties of, compounds of, with double Silicates	2, 94
„ Soda with Silicate of Ferric oxide	5, 233	„ and Sulphites, analogy between	3, 452
„ Stannethyl	9, 97	„	2, 173
„ Stibethyl	10, 525	Carbonic acid	2, 89
„ Stibmethylum	7, 324	„ absorption of, by liquid volatile oils	7, 167
„ Stibmethylene- lium	13, 501	„ copulated acids produced by, with wood-spirit and alcohol	7, 224
„ Strontia	3, 170	„ decomposition of, by the green parts of plants under the influence of light	1, 172
„ Strychnine	17, 490	„ formation of, in fermentation	7, 97
„ Sulphethyl	8, 445	„ formation of, by putrefaction of damp wood in confined air	7, 94
„ Thorina	3, 332	„ formation of, in vinous fermentation	15, 265
„ Thorina and Ammonia	3, 335	„ freezing of, by the cold produced by its own sudden vaporization	1, 273
„ Thorina and Potash	3, 335	„ gas, maximum tension of, at different temperatures	1, 261; 2, 503
„ Titanic oxide and Ammonia	3, 483	„ gas, presence of, in the air	2, 409
„ Titanic oxide and Potash	3, 485	„ solution of, in alcohol	8, 263
„ Titanic oxide and Soda	3, 486	Carbonic Ether	8, 392
„ Uraic oxide	4, 170	Carbonic Oxide	2, 87
„ Uraic oxide and Ammonia	4, 184	„ Oxide, absorption of by liquid volatile oils	7, 167
„ Uraic oxide and Lime	4, 190	„ Oxide, compound of, with hæmoglobin	18, 392
„ Uraic oxide and Potash	4, 187	„ Oxide, effect of, in re-	
„ Uraic oxide and Soda	4, 189		
„ Uranoso-uranic oxide	4, 170		
„ Uranous oxide and Ammonia	4, 184		
„ Vanadic oxide and Ammonia	4, 93		
„ Vanadic oxide and Potash	4, 100		
„ Veratrine	18, 182		
„ Vinomethylc	8, 393		
„ Yttria	3, 286		
„ Yttria and Ammonia	3, 290		

tarding the combustion of detonating gas in contact with platinum and other metals . . .	2, 53	Casein, combinations of, with acids . . .	18, 313
Carbomic Oxide, heat of combustion of . .	1, 294	„ combinations of, with bases . . .	18, 315
„ Oxide, production of formic acid from .	10, 490	„ compound of, with platinum cyanide .	18, 318
„ Oxide, solution of, in alcohol . . .	8, 263	„ of gluten . . .	18, 438
Carbonous acid gas, <i>see</i> Carbomic Oxide.		„ lactic fermentation induced by . . .	7, 99
Carbonisation, imperfect formation of humus by .	17, 460	„ occurrence of . . .	18, 307
Carbothiacetonnine . .	9, 14	„ oxidation of . . .	18, 310
Carbostyryl . . .	18, 302	„ preparation of . . .	18, 308
Carbosulphide of Copper ? .	5, 430	„ preparation of leucine from . . .	11, 428
Carbothiacetonnine . .	18, 379	„ preparation of tyrosine from . . .	18, 358
Carbothaldine . . .	9, 288	„ properties and composition of . . .	18, 309
Carboulmic Acid . . .	17, 476	„ putrefaction of . . .	7, 101, 18, 312
Carbonyl Chloride, compound of, with cyanide of ethyl .	18, 457	„ reaction of, with acetic acid . . .	18, 318
Carbovinic Acid . . .	8, 394	„ reaction of, with chlorine .	18, 311
Carboxide of Potassium .	10, 395	„ reactions of, with mineral acids . . .	18, 311
Carburetted Hydrogen, Light .	7, 249	„ vegetable . . .	18, 423
Carbyle, Sulphate of . . .	8, 412	„ -potash . . .	18, 315
Cardamom oil . . .	14, 362	„ -soda . . .	18, 315
Cardol . . .	17, 517	Cassia, oil of . . .	18, 258
Carminamide . . .	16, 208	„ oil, <i>stearoptene</i> of . . .	17, 395
Carminate of Ethyl ? . .	16, 209	Cashew-nut oil . . .	17, 94
Carminci Acid . . .	16, 205	Cassel-yellow . . .	5, 147
„ acids, Schützenberger's . . .	16, 207	<i>Cassurum pomiferum</i> , oil of the almonds of . . .	17, 94
Carminum, <i>see</i> Carminic Acid.		Cast-iron or Pig-iron . . .	5, 210
Carnaufelic Acid . . .	14, 208	„ action of acids on . . .	5, 215
Carnations, decoloration of tincture of, under blue glass in sunshine . . .	7, 96	„ analyses of . . .	5, 212
Carnauba Wax . . .	18, 159	„ effect of heating in the air . . .	5, 215
Carolina Turpentine . . .	18, 19	„ humous substance remaining on dissolving it in nitric acid . . .	17, 461
Carotin . . .	17, 14	„ saturated . . .	5, 219
Carrot Oil . . .	14, 362	Cast-steel . . .	5, 206
Carthamin . . .	16, 202	Castor and Pollux . . .	3, 448
Carthusian powder . . .	4, 310	Castoreum Oil . . .	14, 364
Cartilage-gelatin . . .	18, 359	Castorn . . .	18, 121
Carucru . . .	17, 18	Castoreum Camphor . . .	18, 121
Carvacrol . . .	14, 414	Castor Oil . . .	17, 137
Carvene . . .	14, 283	„ Oil, preparation of octylic alcohol from . . .	18, 184
Carvol . . .	14, 414	„ Oil, preparation of ricinoleic acid from . . .	17, 181
„ Hydrosulphate of . . .	14, 417	„ Oil, spongy residue from the distillation of . . .	17, 141
Caryophyllin . . .	14, 187	Catalysis . . .	1, 114
Cascarilla bitter . . .	18, 219	Cathartic Acid . . .	18, 241
„ hard resin of . . .	17, 447	Cathartomannte . . .	18, 241
„ oil . . .	14, 363	Catechum . . .	12, 387
Casein, artificial digestion of .	18, 338	„ Hydrated . . .	12, 390
„ chloroplatinate of . . .	18, 316		
„ coagulation of, by rennet . . .	18, 312		

- Catechutannic Acid 15, 515
 Cathode 1, 431
Catinga cœrulea, violet pigment
 of the feathers of 18, 419
 Cations 1, 431; 1, 431
 Cat-thyme, camphor of 14, 361
 Caustic alkalis 3, 3
 " ley 3, 76
 " salt, Caustic solution . . 3, 14
 Cautchene 10, 21
 Cavendish's apparatus for ex-
 plosion of oxygen and hydrogen . 2, 45
 Cavendish's, chemical dis-
 coveries 1, 5
 Cedar-camphor 16, 270
 Cedrene 16, 269
 Cediret 15, 160
 Celery, existence of Apuin in . . 16, 91
 " oil 14, 361
 Cellulose, action of potash on . . 15, 139
 " " soda on 15, 141
 " combination of, with
 alkalis 16, 141
 " combination of, with
 copper 15, 112
 " combination of, with
 lead 15, 111
 " combination of, with
 nickel 15, 111
 " combination of, with
 water 15, 141
 " composition of 15, 129
 " decomposition of, by
 action of moist air 15, 133
 " decomposition of, by
 ammonia 15, 139
 " decomposition of, by
 benzoic acid 15, 139
 " decomposition of, by
 bichloride of tin 15, 140
 " decomposition of, by
 bromine 15, 537
 " decomposition of, by
 heating with bromine
 and water 15, 537
 " decomposition of, by
 butyric acid 15, 139
 " decomposition of, by
 chloride of zinc 15, 140
 " decomposition of, by
 chlorine 15, 134
 " decomposition of, by
 combustion 15, 133
 " decomposition of, by
 dry distillation 15, 133
 " decomposition of, by
 fermentation 15, 140
 " decomposition of, by
 fluoride of boron 15, 139
 Cellulose, decomposition of, by
 hydrochloric acid 15, 139
 " decomposition of, by
 hypochlorites 15, 134
 " decomposition of, by
 iodine 15, 134
 " decomposition of, by
 nitric acid 15, 135
 " decomposition of, by
 peroxide of man-
 ganese and sulphuric
 acid 15, 134
 " decomposition of, by
 potash 15, 139
 " decomposition of, by
 stearic acid 15, 139
 " decomposition of, by
 sulphuric acid 15, 136
 " formation of dextro-
 glucose from 15, 309
 " memoirs relating to 15, 123
 " nitro-derivatives of 15, 166
 " occurrence of, in the
 animal kingdom 15, 126
 " preparation of 15, 126
 " properties of 15, 128
 " reaction of, in the
 indigo-vat 15, 144
 " solubility of, in aqueous
 cuprammonia 15, 142
 " sources of 15, 124
 Cell-walls of plants, constitution
 of 15, 125
 Cement, pure or fat lime with . . 3, 390
 " Roman 3, 391
 Cementation 1, 36
 " -steel 5, 206
Centaurea benedicta, resin of . . 17, 117
 Centaunin, *see* Cincin.
 Centigrade into Fahrenheit de-
 grees, table for
 converting 2, 500
 " Reaumur, and Fah-
 renheit scales, com-
 parative table of 1, 287
Cephalis Ipecacuanha, tannic
 acid from the root of 15, 523
Cera de Palma 17, 405
Ceradia furcata, resin of 17, 404
 Cerain, formation of, from cerin . 18, 135
 Ceratophyllin 15, 535
 " 16, 297
 Cerealin 18, 457
 Cerebrin 16, 479
 Ceric Acid 18, 160
 " Carbonate 3, 264
 " Croconate 10, 392
 " Nitrate 3, 272
 " Oxalate 9, 134

Ceric Oxide	3, 263	Cerous Disilicate	3, 408
„ Rhodizonate	10, 402	„ Formate	7, 278
„ Selenites	3, 269	„ Hyposulpharsonite	4, 309
„ Sulpharseniate	4, 309	„ Hyposulphate	3, 268
„ Sulphates	3, 269	„ Molybdate	4, 77
„ Sulphomolybdate	4, 77	„ Nitrate	3, 271
Cerico-potassic Carbonate	3, 272	„ Oxalate	9, 133
„ Sulphate	3, 273	„ Oxide	3, 257
Cerium	18, 159	„ „ hydrated	3, 257
„ decomposition of, by boiling with potash-ley	18, 135	„ and Ceric Oxide with Fluxes	3, 273
Cerine	3, 427	„ Persulphomolybdates	4, 77
Cerium	17, 443	„ Phosphate	3, 265
Certe	3, 408	„ Racemate	10, 355
„ preparation of cerium from	3, 257	„ Selenites	3, 269
Cesium	3, 255	„ Succinate	10, 122
„ Carbide ?	3, 261	„ Sulpharseniate	4, 309
„ Chloride	3, 270	„ Sulpharsenite	4, 309
„ Cyanide	7, 117	„ Sulphate	3, 268
„ Ferrocyanide	7, 486	„ Sulphite	3, 267
„ Fluorides	3, 271	„ Sulphomolybdate	4, 77
„ Iodide ?	3, 270	„ Sulphotellurite	4, 125
„ Oxides	3, 257	„ Tartarate	10, 291
„ Oxychloride	3, 271	Cerotate of Cerotyl	18, 139
„ Oxysulphide	3, 267	„ Ethyl	18, 138
„ Phosphide	3, 265	Cerotates, metallic	18, 137
„ Salts, solubility of, in alcohol	3, 268	Cerotene	18, 133
„ Selenide	3, 269	Cerotic Acid	18, 135
„ separation of, from lanthanum and didymium	3, 260, 275	Cerotin	18, 133
„ Sesquichloride, hydrated	3, 271	Cerotonone	18, 138
„ Silicate of Protoxide of, with silicate of alumina	3, 420	Cerotyl Alcohol	18, 133
„ Sulphides	3, 267	„ Cerotate	18, 139
„ Sulphotungstate	4, 45	Cerotyl-sulphuric Acid	18, 137
„ and Iron, carbide of	5, 274	Ceroxylol or Cerosilin	18, 161
„ and Mercury, chloride of	6, 109	<i>Ceroxylon Andicola</i>	17, 405
Ceropates	18, 16	<i>Cerussa Antimonii</i>	4, 377
Cerotic Acid	18, 81, 82	Cetic Acid	16, 365
Cerose-ammonic Carbonate	3, 272	Cetm	16, 347
„ Sulphate	3, 272	Cetrarates	17, 24
Cerose-calcic Carbonate	3, 274	Cetraric Acid	17, 21
Cerose-ceric Oxide	3, 262	Cetrarin-blue	17, 23
„ Sulphate	3, 269	Cetyl Acetate	16, 375
Cerose-potassic Carbonate	3, 272	„ Benzoate	16, 381
„ Sulphate	3, 272	„ Bromide	16, 369
Cerose-sodic Sulphate	3, 273	„ Butyrate	16, 379
Cerous Acetate	8, 308	„ Chloride	16, 369
„ Arsenate	4, 308	„ Cyanide	16, 374
„ Benzoate	12, 40	„ „ preparation of margaric acid from	16, 476
„ Bromate	3, 270	„ Iodide	16, 368
„ Bromide	3, 270	„ Oxide	16, 312
„ Carbonate	3, 264	„ Stearate	17, 128
„ Chromates	4, 154	„ Succinate	16, 379
„ Cinnamates	13, 275	„ Sulphide	16, 367
„ Citrates	11, 452	„ Sulphydrate	16, 367
		„ acetic Ether	16, 375
		Cetylamine	16, 384
		Cetyl-benzoic Ether	16, 381
		„ butyric Ether	16, 379

Cetylene	16, 341	Chelidonate of Soda	12, 416
„ Chlorohydrate	16, 373	„ Strontia	12, 417
„ -sulphuric Acid	16, 370	Chelidonic Acid	12, 413
Cetyllic Alcohol	16, 341	Chelodimne	17, 164
„ Aldehyde	16, 349	<i>Chelidonium majus</i> , ferment-oil of	14, 405
„ Chlorohydrin	16, 373	<i>Chelidonium majus</i> , preparation of Chelerythrine from the roots of	17, 157
„ Ether	16, 342	Chelidoxanthine	17, 163
„ Mercaptan	16, 367	Chemical action of Light, me-	
Cetyl-succinic Ether	16, 979	moirs relating to	1, 161
„ -sulphuric Acid, <i>see</i> Cetyl-		„ attraction	1, 33
lene-sulphuric acid.		„ combination, <i>see</i> Com-	
Cetyl-xanthic Acid	16, 371	„ combination	
Cevadic Acid	18, 186	„ compounds, <i>see</i> Com-	
Chabasite	3, 410	„ compounds	
Chærophylline	18, 189	„ co-operation, influence of, on combination	1, 37
<i>Chærophyllum sylvestre</i> , ferment oil of	14, 405	„ decomposition, <i>see</i> De-	
Chalcedony	3, 352	„ decomposition	
Chalk	3, 185	„ electricity	1, 328
Chalkolite	5, 468	„ and electro-chemical action, distinction between	1, 343
Chamaeleon-salt of Zeise	2, 463	„ energy, combination induced by communi-	
Chamoisite	5, 284	„ cation of	1, 38
Chamomile, Roman, essential oil of	10, 412	„ energy, decomposition induced by communi-	
„ wild, oil of	14, 365	„ cation of	1, 115
Characteristics of Primary Nuclei	7, 23	„ equivalents, doctrine of	1, 39—54
Charcoal, appearances presented by, in the voltaic arc	2, 85	„ equivalents, table of	1, 63
„ effect of, in inducing the combination of oxygen and hydrogen	11, 53	„ equivalents, Wollaston's scale of	1, 63
„ humous products formed from, by the action of alkalis and of nitric acid	17, 461	„ force	1, 33
„ preparation of	2, 83	„ formulæ	1, 60
„ „ by dry distillation of wood	7, 82	„ harmonica	2, 58
„ production of, by imperfect combustion of organic bodies	7, 85	„ physiology, subjects of	7, 1
„ from wood	15, 153	„ powers of the different rays of the Spectrum	1, 174
„ sulphuretted	2, 206	„ proportions, doctrine of	1, 39—64
„ -burning	15, 159	„ rays, permeability of different substances by	1, 174
Chelerythrine	17, 156	„ relations of compounds	1, 96
„ salts	17, 159	„ relations of light	1, 165
Chelidonate of Ammonia	12, 415	„ spectrum	1, 180
„ Baryta	12, 417	„ symbols 1, 50, 66, and 68—72	
„ Copper	12, 420	„ theory of galvanic action	1, 512
„ Ferric oxide	12, 420	„ weights	1, 42
„ Ferrous oxide	12, 420	Chemistry, an art as well as a science	1, 2
„ Lead	12, 419	„ branches of	1, 2
„ Lime	12, 417		
„ „ and Potash	12, 418		
„ Magnesia	12, 418		
„ Potash	12, 416		
„ Silver	12, 421		
„ „ and Calcium	12, 421		

Chemistry, definition of ..	1, 1	with Chloride of Cad-	
„ formation of first sys-	1, 4	mium ..	13, 250
„ historical survey of ..	1, 2	Chinoline, Hydrochlorate of, with	
„ Organic, its subdivi-		Chloride of Uianyl .	13, 219
sions ..	7, 1	„ Monohydrate ..	13, 247
„ special ..	1, 160	„ Nitrate ..	13, 249
Chenocholic acid ..	18, 130	„ Oxalate ..	13, 253
Chenopodin ..	18, 220	„ Picrate ..	13, 251
<i>Chenopodium ambrosioides</i> , oil		„ production of, by dis-	
of	14, 366	tilling gumme with	
Chermes, preparation of Oxalic		potash ...	17, 273
acid from ..	10, 210	„ Sulphate ..	13, 248
„ colouring matter of ..	16, 529	„ terhydrated ..	13, 248
Cherry-water ..	12, 29	Chinone ..	11, 158
Chevreul's artificial bitter,		Chiococcic acid ..	13, 142
with minimum of		Chitin ..	15, 342, 414
acid ..	12, 306	„ coloration of blowpipe	
„ saponification experi-		flame by ..	13, 257
ments ..	7, 234	Chlonaphthalane ..	14, 64
„ volatile acid from in-		<i>Chlonaphthalase</i> , A Laurent's ..	14, 63
digo ..	12, 306	<i>Chlonaphthase</i> , see Chloronaphtha-	
„ margaric acid ..	16, 335	lin ..	14, 38
Chastolite ..	3, 412	<i>Chlonaphthase</i> , see Bichloronaph-	
Chica-red ..	17, 18	thalin ..	14, 41
Chicory-roots, preparation of		„ (bromure de), see	
inulin from ..	15, 114	Bihydrobromate of Bichloro-	
Children's battery ..	1, 425	bromonaphthalin ..	14, 75
Chili Saltpetre ..	3, 117	<i>Chlonaphthase</i> , see Terchloronaph-	
Chimaphilin ..	18, 220	thalin ..	14, 49
<i>China bicolor</i> , bitter principal		<i>Chlonaphthase</i> , see Quadrichloro-	
of ..	18, 221	naphthalin ..	14, 58
„ <i>de Cusco vera</i> , prepara-		Chloracetals ..	13, 477
tion of alicine from ..	17, 569	Chloracetamic Acid ..	9, 272
„ <i>Jaen fusca</i> , preparation		Chloracetamide ..	9, 270; 12, 541
of paricine from ..	17, 571	Chloracetate of Amyl ..	11, 70
„ <i>nova</i> , known in the		Chloracetates, metallic ..	12, 537
bark of	18, 26	Chloracetene ..	13, 533
China Orange-oil ..	14, 306	Chloracetic Acid ..	12, 537
Chinese, chemical knowledge of	1, 3	„ formation of	
„ Radish, oil of ..	17, 554	glycolic acid from ..	13, 434
„ Tallow ..	16, 388	Chloraceticin, Glycolic ..	13, 430
„ Wax, preparation of		Chloracetones ..	13, 463
palmitic acid from ..	14, 353	Chloracetoneitrile ..	9, 295
„ Wax, occurrence of Co-		Chloracetyl ..	9, 191
rotic acid in ..	18, 135	Chloracetylphide ..	9, 224
Chinic Acid, see Kinic Acid.		Chloral ..	9, 203; 13, 533
<i>Chiococca racemosa</i> , occurrence		„ hydrate ..	9, 205
of Camcic acid in ..	18, 145	„ insoluble ..	9, 235
Chiococcic acid ..	18, 142	„ mesitic ..	9, 27
Chinoline ..	13, 243	Chloralbin ..	11, 390
„ with Mercuric Chloro-		Chloraldehyde ..	9, 218
ride ..	13, 250	Chloraldehydene ..	9, 191
„ Chloroaurate ..	13, 250	Chloralide ..	9, 207; 13, 534
„ Chloropalladate ..	13, 251	Chloralase ..	16, 465
„ Chloroplatinate ..	13, 251	Chloraloul ..	16, 464
„ Formiate	13, 252	Chloramylal ..	11, 43
„ Hydrochlorate ..	13, 248	Chloranil ..	11, 196
„ Hydrochlorate of,		Chloranilamic Acid ..	11, 239
		Chloranilamide ..	11, 212

Chloramic Acid ..	11, 190	Chlorethylate of Ethylhydine	13, 454
Chloraniline ..	11, 281	Chloreuxanthic Acid .	17, 536
" salts	11, 283	Chloreuxanthone .	17, 184
Chloranisal, <i>see</i> Terchloranethol	14, 215	Chlorhelemin ..	17, 525
Chloramstate of Ethyl .	13, 136	Chlorhelicin ..	15, 446
" Methyl	13, 136	Chlorhydrantl .	11, 199
Chloramic Acid .	13, 135	Chlorhydride of Cyanogen .	9, 163
Chloranisol .	14, 215	Chlorhydram ..	9, 198
Chloramso-nitramic Acid	13, 112	" Cetyllic .	16, 373
Chloranthracene	16, 167	" Glycolic .	13, 427
" hydrochlorate		Chlorhydrams ...	13, 577
of .	16, 168	Chlorhydrocarotin .	17, 55
Chlorapatite ..	3, 219	Chlorhydrodibromhydram	13, 578
Chlorasemide of Mercury	6, 118	Chlorhydromannitan	15, 373
Chlorate of Alumina .	3, 316	Chlorhydronitrate of Diplatina-	
" Ammonia ..	2, 480	mine ..	6, 318
" Baryta	3, 160	Chloric Acid .	2, 312
" Cinchonine	17, 208	" Acid, action of, on orga-	
" Berberine ..	17, 191	nic compounds ...	7, 125
" Bicucine ..	17, 580	" Oxide .	2, 309
" Cobalt-oxide	5, 337	" Oxide, action of, on orga-	
" Cupric oxide	5, 412	nic compounds	7, 125
" Lead-oxide	5, 148	" Oxide, emission of light	
" Lime .	3, 212	in the sudden decompo-	
" Lithia .	3, 131	sition of ..	1, 206
" Magnesia	3, 213	" Oxide, maximum tension	
" Manganous oxide .	4, 230	of, at different tempera-	
" Mercuric oxide	6, 62	tures .	1, 261
" Mercurous oxide .	6, 61	Chloride of Acetyl ..	9, 191, 10, 536
" Nickel-oxide ..	5, 378	" Acetyl, action of, on	
" Silver-oxide	6, 167	anhydrous sulphu-	
" Morphine ...	16, 431	ric acid .	13, 455
" Potash ..	3, 58	" Acetyl, compound of,	
" Potash, preparation		with aldehyde .	13, 441
of oxygen from .	2, 20	" Acetylum ...	10, 539
" Potash, use of, in		Chlorides of the Alkalis	2, 299
ultimate analysis		Chloride of Aluminium	3, 315
of organic com-		" Aluminium with Am-	
pounds .	7, 86	monia .	3, 320
" Quinine .	17, 282, 615	" Aluminium and Phos-	
" Soda .	3, 114	phorated hydro-	
" Strontia ..	3, 178	gen .	3, 317
" Strychnine .	17, 493	" Aluminium and Po-	
" Uranous oxide .	4, 18	tassium ..	3, 323
" Zinc-oxide .	5, 3	" Aluminium and So-	
Chlorates, metallic	2, 314	dium ...	3, 326
Chlorazolitmin	12, 366	" Amidogen .	2, 470
Chlorazol ..	18, 258	" Ammonium ..	2, 478
Chlorazosuccic Acid .	10, 36	" Ammonium with Bi-	
<i>Chlorbronaphthene, A</i> (Laurent's),		cyanide of Plati-	
<i>see</i> Bromobichloronaphtha-		num	8, 47
lin ..	14, 72	" Ammonium with	
<i>Chlorêbronaphthene</i> (Laurent's)	14, 73	Cyanide of Mer-	
Chloreyl-hyposulphuric Acid. .	2, 340	cury ...	8, 17
<i>Chlorenbronaphthene</i> (Laurent's)	14, 7	" Amyl ...	11, 42
<i>Chlorêthase</i> .	9, 191	" Anisyl	13, 134
Chloretherose, hydrochlorate of	9, 213	" Antimony .	4, 365
<i>Chlorêthase</i> .	9, 196	" Antimony and Po-	
<i>Chlorêthase</i> ...	9, 214	tassium .	4, 381

Chloride of Antimony and So-	Chloride of Calcium with Aurate
dium	of Lime
4, 382	6, 231
„ Arsenethylum	„ Calcium with Carbo-
9, 77	nate of Lime
4, 285	3, 219
Chlorides of Arsenic	„ Calcium with Cya-
9, 76	nide of Mercury
„ Auric	8, 23
„ Aurous	„ Calcium with Lac-
6, 215	tate of Ethyl
„ of Barium	11, 497
3, 157	„ Calcium with Lac-
„ Barium with Aurate	tate of Lime
of Baryta	11, 484
6, 234	„ Calcium with Oxal-
„ Barium with Cya-	ate of Lime
nide of Mercury	9, 132
8, 22	„ Calcium with Sul-
„ Barium and Fluoride	phide of Calcium
of Barium	3, 219
3, 166	„ Capryl
„ Benzoyl	13, 195, 216, 587
12, 108	„ Caprylene
„ Benzoyl, combina-	13, 588
tion of, with bi-	„ Carbonyl, compound
chlorovinic ether	of, with Cyanide of
12, 111	Ethyl
„ Benzoyl, combination	13, 457
of, with Bitter Al-	„ Cerium
mond Oil	3, 270
12, 111	„ Cetyl
„ Benzyl	16, 369
12, 50	„ Chlorobenzoyl
„ Benzylene	12, 116
12, 51	„ Chloroxynaphthalam
„ Binitromethylene	14, 68
7, 360	„ Chromium
„ Biplumbic Triethyl	4, 130
13, 511	„ Cholesteryl
„ Boron	18, 117
2, 327	„ Cimicyl
„ Bisethyl	16, 286
9, 90	„ Cinnamyl
„ Bismuth	13, 294
4, 438	„ Cobalt
„ Bismuth and Am-	5, 336
monium	„ Cobalt with Cyanide
4, 444	of Mercury
„ Bismuth and Potas-	8, 26
sium	Chlorides of Copper
4, 447	5, 438
„ Bismuth and So-	Chloride of Cumyl
dium	14, 165
4, 448	„ Cupric
„ Bistannamyl	5, 438
11, 131	„ Cuprico-ammonic
„ Bistannic Triethyl	5, 453
13, 508	„ Cuproso-ammonic
„ Bromine	5, 453
2, 350	„ Cuproso-sodic
„ Butyl	5, 462
10, 102	„ Cuprous
„ Butylene	5, 438
10, 103	„ Cuprous, with Xan-
„ Butyryl	thamide
10, 139	9, 277—282
„ Cacodyl	„ of Cyanogen and Anti-
9, 343	mony
„ Cadmium	8, 146
5, 60	„ Cyanogen and Iron
„ Cadmium and Am-	8, 147
monium	„ Cyanogen, liquid
5, 63	9, 466
„ Cadmium with Hy-	13, 565
drochlorate of Chi-	„ Cyanogen, solid
noline	9, 466
13, 250	„ Cyanogen and Tita-
„ Cadmium and Potas-	nium
sium	8, 146
5, 64	„ Cyanogen, volatile
„ Cadmium and So-	8, 140
dium	„ Cymyl and Hydro-
5, 64	gen
„ Cajputene	14, 214
14, 514	„ Draconyl
„ Calcium	14, 216
3, 206	„ Ethyl
„ Calcium with Ace-	8, 367
tate of Lime	„ Ethylene-stannethyl
8, 302	9, 101
„ Calcium, alcoholate	„ Ethylidene
of	13, 452
8, 267	„ Ethyl-stannethyl
„ Calcium with Am-	9, 106
monia	„ Ferric
3, 215	5, 253
	„ Ferrico-ammonic
	5, 263
	„ Ferrico-potassic
	5, 271
	„ Ferruso-ammonic
	5, 263

Chloride, Ferroso-potassic	5, 271	Chloride, Mercuric, with	
„ Ferrous	5, 251	Strychnine ..	17, 497
„ or Fluoride of Calcium with Tri-phosphate of Lime	3, 219	„ Mercuric, with Sulphate of Strychnine	17, 497
„ of Formyl (so called)	9, 196	„ Mercurous ..	6, 45
„ Glucinum	3, 299	„ Mercurous, with Ammonia	6, 83
Chlorides of Gold	6, 215	„ of Mercury and Barium	6, 106
Chloride of Gold and Ammonium	6, 225	„ Mercury and Cerium	6, 109
„ Gold and Cobalt	6, 246	„ Mercury and Cobalt	6, 129
„ Gold and Nickel	6, 24	„ Mercury and Copper	6, 131
Chlorides of Iodine	2, 346, 348	„ Mercury, Copper, and Potassium	6, 131
Chloride of Iodine and Ammonium	2, 487	„ Mercury with Chinoline ..	13, 250
„ Iodine and Magnesium	3, 213	„ Mercury and Glucinum	6, 109
„ Iodine and Potassium	3, 63	„ Mercury and Hydrogen	6, 61
„ Iridic	6, 380	„ Mercury and Iron	6, 129
„ Iridious	6, 378	„ Mercury and Manganese	6, 116
„ of Iridium and Silver	6, 392	„ Mercury and Magnesium	6, 109
Chlorides of Iron	5, 251	„ Mercury and Nickel	6, 130
Chloride of Lanthanum	3, 279	„ Mercury and Sodium	6, 104
„ Lead	5, 145	„ Mercury and Strontium	6, 107
„ Lead and Ammonium	5, 160	„ Mercury and Tin	6, 125
„ Lead with Arseniate of Lead-oxide	5, 171	„ Mercury and Yttrium	6, 109
„ Lead and Barium	5, 163	„ Mercury and Zinc	6, 123
„ Lead with Phosphate of Lead-oxide and Lime	5, 164	„ Mesityl	9, 27
„ Lead and Sodium	5, 163	Chlorides, Metallic	2, 351
„ Lime	2, 300; 3, 208	„ Metallic, action of, on Alcohol	13, 413
„ Lithium	3, 130	„ Metallic, action of, on organic compounds	7, 130
„ Magnesium	3, 241	„ Metallic, compounds of, with Ammonia	2, 427
„ Magnesium, alcoholate of	3, 268	„ Metallic, compounds of, with Cyanide of Ethyl	13, 457
„ Magnesium with Aurate of Magnesia	6, 235	„ Metallic, compounds of, with Cyanide of Methyl	13, 411
„ Magnesium with Cyanide of Mercury	8, 23	„ Metallic, compounds of, with double Silicates	3, 461
„ Magnesium and Sodium	3, 253	„ Metallic, compounds of, with Hydrocyanic Acid	8, 148
„ Manganese	4, 227	„ Metallic, compounds of Urea with	7, 372; 13, 403
„ Manganese with Cyanide of Mercury	8, 24	„ Metallic, Electrolysis of ..	1, 456
„ Mercuric	6, 53	„ Metallic, hydrated	2, 353
„ Mercuric, with Alkarsin	9, 324		
„ Mercuric, with Ammonia	6, 81		
„ Mercuric, with Cupric Acetate	8, 332		
„ Mercuric, with Nicotine	14, 228		

Chloride of Methstannamyl . . .	11, 132	Chloride of Potassium with Bi-	
" Methystannamyl . . .	11, 133	modate of Potash . . .	3, 72
" Methyls . . .	7, 287; 10, 495; 13, 392	" Potassium with Bisulphite of Osmious Oxide . . .	6, 419
" Methyl, action of heat on . . .	12, 480	" Potassium with Cyanide of Mercury . . .	8, 20
" Methyl, chlorinated . . .	7, 288	" Potassium with Ethylchloride of Platinum . . .	8, 391
" Methylene . . .	13, 391	" Potassium with Sulphate of Potash . . .	3, 71
" Methylene - stannamyl . . .	11, 132	" Potassium and Sulphate of Potash with Chloro-hypsulphate of Iridious Oxide . . .	6, 389
" Methylene - stannethyl . . .	9, 100	" Potassium with Sulphite of Iridious Oxide . . .	6, 388
" Methylc, Bisulphide of . . .	10, 502	" Propylene . . .	9, 398
" Methyloplumbethyl . . .	9, 108	" Pteyl . . .	9, 19
" Methylostannethyl . . .	9, 104	Chlorides of Rhodium . . .	6, 363
" Naphthalin, Laurent's . . .	14, 58	" Ruthenium . . .	6, 400
" Naphthylsulphurous . . .	14, 505	Chloride of Salicyl . . .	12, 294
" of Nickel . . .	5, 377	" Selenethyl . . .	8, 356
" Nickel and Ammonium . . .	5, 383	Chlorides of Selenium . . .	2, 345
" Nickel with Cyanide of Mercury . . .	8, 26	Chloride of Silicium . . .	3, 360
" Niobium . . .	4, 18	" Silver . . .	6, 160
" Nitranisyl . . .	13, 142	" Silver, decomposition of, by light . . .	1, 172
" Nitrobenzoyl . . .	12, 137	" Silver, decomposition of, by Metallic Sulphides and Arsenides . . .	6, 428
" Nitrogen . . .	2, 470	" Silver, reduction of . . .	6, 428
" Nitrogen, emission of light on the sudden decomposition of . . .	1, 206	" Silver, solubility of, in Hydrochloric Acid . . .	6, 428
" Octyl . . .	13, 587	" Silver and Ammonium . . .	6, 176
" Octylene . . .	13, 588	" Silver and Barium . . .	6, 181
" Cenanthyl . . .	12, 470	" Silver and Calcium . . .	6, 182
" Cenantylene . . .	12, 461	" Silver and Hydrogen, aqueous . . .	6, 166
Chlorides of Osmium . . .	6, 412	" Silver and Potassium . . .	6, 179
Chloride of Othyl . . .	9, 195	" Silver and Sodium . . .	6, 180
" Palladic . . .	6, 349	" Sodium . . .	3, 110
" Palladious . . .	6, 349	" Sodium with Aurate of Soda . . .	6, 233
" of Pelargyl . . .	13, 377	" Sodium, compound of, with Cane-sugar . . .	15, 233
" Pelopium . . .	4, 22	" Sodium with Cyanide of Mercury . . .	8, 21
" Perchloroxynaphthalin . . .	14, 70	" Sodium with Ethylchloride of Platinum . . .	8, 392
" Phenyl . . .	11, 173	" Sodium, compounds of, with Glucose . . .	15, 325
" Phoryl . . .	13, 343		
Chlorides of Phosphorus . . .	2, 328		
Chloride, Platinic . . .	6, 294		
" Platinous . . .	6, 293		
" of Platinum, detonating inflammable, or hydrocarburetted . . .	8, 388		
" Potash . . .	3, 57		
" Potassium . . .	3, 56		
" Potassium with Aurate of Potash . . .	6, 230		
" Potassium with Carbonate of Potash . . .	3, 71		
" Potassium with Bismuthide of Platinum . . .	8, 51		

Chloride of Sodium and Iodate of Soda . . .	3, 121	Chlorides of Tungsten	4, 35
" Sodium, compound of, with Urea . .	7, 372	Chloride of Uranous Oxide .	4, 182
" Stannamyl . . .	11, 131	" Uranous Oxide and Ammonium . . .	4, 186
" Stannethyl . . .	9, 98	" Uranous Oxide and Potassium	4, 188
" Stannic . . .	5, 88	" Uranyl . . .	4, 181
" Stannous . . .	5, 84	" Uranyl with Hydrochlorate of Chino- line . . .	13, 249
" of Stibethyl . . .	9, 83, 10, 526	" Uranyl and Potas- sium . . .	4, 188
" Stibethylum . . .	10, 528	Chlorides of Uranium . .	4, 183
" Stibethylum and Mercury . . .	10, 529	Chloride of Valeryl . . .	11, 527
" Stibethylum and Platinum . . .	10, 529	" Vanadium and Am- monium . . .	4, 98
" Stibmethylethylum . .	13, 502	" Yttrium . . .	3, 289
" Stibmethylum . . .	7, 327	" Yttrium and Potas- sium . . .	3, 290
" Stibtriethyl . . .	11, 127	" Zinc . . .	5, 30
" Strontium . . .	3, 177	" Zinc and Ammo- nium . . .	5, 42
" Strontium with Au- rate of Strontia . .	6, 234	" Zinc with Cratinine .	10, 259
" Strontium with Cy- anide of Mercury . .	8, 22	" Zinc and Cratinine, preparation of Crea- tinine from . . .	10, 251
" Styrol . . .	13, 16	" Zinc with Cyanide of Mercury . . .	8, 24
" Succinyl . . .	10, 136	" Zinc and Potassium .	5, 44
" Sulphobenzoyl . . .	12, 117	" Zinc and Sodium . .	5, 45
" Sulphophenyl . . .	11, 174	" Zirconium . . .	3, 345
Chlorides of Sulphur . .	2, 351	Chloromasatin . . .	13, 108
Chloride of Sulphur and Arsenic . . .	4, 285	Chlorimesatin . . .	13, 85
" Sulphur, Sulphazotic . .	2, 475	Chlorinated Chloride of Methyl .	7, 288
" Sulphur and Tin . . .	5, 90	" Oil from Cinnamic Acid . . .	13, 297
" Sulphur and Tita- nium . . .	3, 484	" Oil of Turpentine . .	14, 439
Chlorides of Tantalum . . .	4, 5	" Oils . . .	16, 316
Chloride of Telluramyl . .	11, 45	" Peppermint - cam- phor . . .	14, 453
" Tellurethyl . . .	8, 385	Chlorindatmite . . .	11, 285
" Telluric . . .	4, 412	Chlorindin . . .	13, 87
" Telluric, Tellurite of . .	4, 412	Chlorine . . .	2, 288
Chlorides of Tellurium . .	4, 411	" absorption of, by vola- tile oils . . .	7, 165
Chloride of Tellurium and Silver .	6, 193	" action of, on acetic ether . . .	13, 534
" Telluromethyl . . .	10, 494	" action of, on aldehyde .	12, 535
" Tellurous . . .	4, 411	" action of, on sulphide of ethyl . . .	10, 513
" of Thorium . . .	3, 334	" action of, on the sul- phides of methyl .	10, 500
" Thorium and Potas- sium . . .	3, 336	" action of, on sulpho- cyanide of methyl .	10, 511
Chlorides of Tin . . .	5, 84	" atomic weight of . . .	2, 293
" Titanium . . .	3, 479	" behaviour of organic compounds contain- ing, towards fixed alkalis . . .	7, 139
Chloride of Titanium and Am- monium . . .	3, 484		
" Titanium, compound of, with Cyanide of Methyl . . .	13, 412		
" Titanium with Hy- drochloric Acid and Phosphuretted Hy- drogen . . .	3, 481		
" Titanium and Phos- phuretted Hydro- gen . . .	3, 480		
" Triethylphosphine . .	12, 525		

Chlorine, compounds of, with nuclei . . .	7, 212	Chlorisatyde . . .	13, 100
„ electrolysis of aqueous solution of . . .	1, 451	Chlorisatydic acid . . .	13, 101
„ history of . . .	2, 289	Chlorite . . .	3, 422
„ hydrate of . . .	2, 293	„ of Ammonia . . .	2, 479
„ liquefaction of . . .	2, 291	„ Baryta . . .	3, 160
„ memous relating to . . .	2, 288	„ Lead-oxide . . .	5, 148
„ maximum tension of, at different temperatures . . .	1, 261	„ Potash . . .	3, 37
„ in organic compounds . . .	7, 5	„ Silver-oxide . . .	6, 166
„ oxygen-compounds of . . .	2, 291	„ Soda . . .	3, 114
„ peroxide of . . .	2, 309	„ Strontia . . .	3, 178
„ preparation of . . .	2, 290	Chlorites . . .	2, 308
„ properties of . . .	2, 292	Chlorite-spar . . .	5, 287
„ protoxide of . . .	2, 304	<i>Chloronaphthalase</i> , see Chloronaphthalin . . .	14, 38
„ quantities of heat evolved in the combination of different bodies with . . .	1, 291	<i>Chloronaphthalase</i> , see Bichloronaphthalin . . .	14, 41
„ replacement of, by amidogen . . .	7, 74	<i>Chloronaphthalase</i> , <i>A</i> , see Perchloronaphthalin . . .	14, 49
„ replacement of, by hydrogen . . .	7, 71	<i>Chloronaphthalase</i> , see Quadrichloronaphthalin . . .	14, 69
„ replacement of, by sulphur . . .	7, 75	Chloro-aurate of Aconitine . . .	14, 59
„ sources of . . .	2, 290	„ Aniline . . .	11, 261
„ substitution of, for hydrogen . . .	7, 78	„ Atropine . . .	16, 454
„ substitution of, for hydrogen in organic compounds . . .	7, 119	„ Barium . . .	6, 233
„ use of, for preserving meat . . .	7, 116	„ Berberine . . .	17, 193
„ and Hydrogen, combination of, induced by light . . .	1, 170; 2, 319	„ Biethylconine . . .	13, 173
„ -compounds, action of alcoholic potash on . . .	13, 421	„ Brucine . . .	17, 532
„ -nuclei . . .	7, 170	„ Cadmium . . .	6, 239
„ -nuclei, aldehydes of . . .	7, 194	„ Caffeine . . .	13, 233
„ -salts . . .	2, 9, 355	„ Calcium . . .	6, 234
„ -water . . .	2, 293	„ Caprylamine . . .	13, 221
Chloriodide of Lead . . .	5, 151	„ Chinoline . . .	13, 250
„ „ Platinum ? . . .	6, 295	„ Chlorogenine . . .	18, 191
„ „ Silver . . .	6, 167	„ Cinchonidine . . .	17, 613
Chloriodides of Tetramethylum . . .	12, 490	„ Cinchonine . . .	17, 213, 610
Chloriodoform . . .	7, 337	„ Corydaline . . .	17, 609
Chloriradiate of Ammonium . . .	6, 382	„ Cyaniline . . .	11, 362
„ „ Brucine . . .	17, 582	„ Ethylamine . . .	9, 60
„ „ Cinchonine . . .	17, 213	„ Ethylmethylnine . . .	13, 175
„ „ Narcotine . . .	16, 145	„ Ethylnicotine . . .	14, 238
„ „ Potassium . . .	6, 386	„ Ethylopyridine . . .	10, 408
„ „ Sodium . . .	6, 391	„ Hydrastine . . .	17, 545
Chlorisamic acid . . .	13, 112	„ Lithium . . .	6, 233
Chlorisamide . . .	13, 113	„ Magnesium . . .	6, 235
Chlorisatic acid . . .	13, 75	„ Manganese . . .	6, 237
Chlorisatin . . .	13, 72	„ Melaniline . . .	11, 355
Chlorisatosulphurous Acid . . .	13, 77	„ Mercurialine . . .	13, 28
		„ Methylamine . . .	7, 317
		„ Methylbrucine . . .	17, 587
		„ Methylnicotine . . .	14, 235
		„ Methylstrychnine . . .	17, 509
		„ Narceine . . .	17, 600
		„ Neurine . . .	18, 381
		„ Pelosine . . .	17, 27

Chloro-aurate of Picoline	... 11, 270	Chlorocholesterin	... 18, 122
" Potassium	.. 6, 229	Chlorochromic acid	.. 4, 135
" Quindine	.. 17, 300	Chlorocinnamic acid	.. 13, 295
" Sinicaline	.. 11, 116	Chlorocannose	.. 13, 298
" Sodium	.... 6, 232	Chlorocodeine	.. 17, 39
" Sparteine	16, 282	Chlorocoumemic acid	.. 11, 390
" Strontium	6, 234	Chlorocuminal	14, 152, 166
" Strychnine	.. 17, 498	Chlorocumol	.. 14, 152
" Tetramethyl-		Chlorocumyl	14, 165
phosphonium	12, 493	" Hydride	14, 166
" Tetrethylum	.. 9, 68	Chlorocyanamide	9, 478, 10, 548
" Tetrethylphos-		Chlorocyanic oil	.. 9, 466
phonum	.. 12, 527	Chlorocyanide of Ethyl ?	.... 8, 492
" Toluidine	... 12, 336	" Formic Ether ?	8, 492
" Veratrine	.. 18, 183	" Mercury	8, 17
" Zinc	.. 6, 239	Chlorocyanilide	.. 11, 363
Chlorobenzamide	.. 12, 151	Chlorocyanuric ether	.. 13, 563
Chlorobenzene	.. 11, 173	Chlorocymene, Hydrochlorate of	14, 214
" sulphate of	11, 175	Chloroanthracic acid	.. 12, 460
Chlorobenzile	12, 184	" ether	.. 12, 460
Chlorobenzoate of Ethyl	.... 12, 115	Chloroanthrylene	.. 12, 469
Chlorobenzoates, metallic	.. 12, 114	Chloro-ferrocyanide of Ammo-	
Chlorobenzoic acid	12, 112	nium	7, 451
Chlorobenzol	.. 12, 51	" Ethyl	9, 354
Chlorobenzone	11, 180	Chlorofilic acid	... 16, 128
Chlorobenzoyl Chloride	.. 12, 116	Chlorofilipelosates	.. 15, 31
" and Hydrogen,		Chloro-fluoride of Lead	5, 151
nitride of	12, 152	Chloroform	7, 343; 9, 506
Chlorobibromaniline	.. 11, 286	" formation of, from	
Chlorobibromide of Cacodyl	... 13, 495	carbon bichloride	.. 13, 400
Chloroborate of Ammonia	.. 2, 481	" reaction of, with	
Chlorobromide of Silver	.. 6, 167	ammonia and with	
Chlorobromonaphthalin Hydro-		aniline	.. 13, 400
chlorate of	.... 14, 71	" solubility of, in al-	
Chlorobutylene....	.. 10, 138	cohol	.. 8, 273
Chlorobutyral	.. 10, 139	" testing of purity	
Chlorobutyrase	.. 10, 138	of	13, 400
Chlorobutyryn, glycolic	.. 13, 432	Chloroformyl-hyposulphuric Acid	2, 340
Chlorocadmiate of Cinchonine	.. 17, 211	Chloroformate of Amyl	11, 66
" Lecithine	18, 378	Chlorogenate of Caffeine and	
" Strychnine	.. 17, 496	Potash	... 15, 509
Chlorocaffeine	.. 13, 235	Chlorogenin	.. 16, 65
Chlorocaoutchin	.... 14, 330	" formation of chloro-	
Chlorocaprylene, binoxide	.. 13, 216	rubin from	.. 16, 70
Chlorocarbethamic acid	... 9, 229	Chlorogenine	... 18, 189
Chlorocarbethamide	.... 9, 228	Chlorohumic acid	.. 17, 465
Chlorocarb-hyposulphuric acid	... 2, 340	Chlorohydrokinone, brown	.... 11, 187
Chlorocarbonate of Ammonia	2, 480	" colourless	.. 11, 187
" Lead	... 5, 148	Chlorohydrate of Cetylene	.. 16, 373
Chlorocarbonic Oxide	.. 2, 326	Chlorohyposulphite of Chlorocar-	
" Oxide, chloro-		bonic oxide	.. 2, 337
hyposulphite of	2, 337	Chlorohyposulphate of Iridious	
Chlorocarotin	.. 17, 16	oxide with Chloride of Potas-	
Chlorocarvene	.. 14, 285	sium	... 6, 389
Chlorocerotal	.. 18, 140	Chlorohyposulphate of Iridious	
Chlorocerotene	.. 18, 140	oxide, with Sulphate of Pot-	
Chlorocrotic Acid	... 18, 139	ash	... 6, 388
Chlorochmhydrone	.. 11, 188	Chlorohyposulphate of Iridious	
Chlorochinone	... 11, 185	oxide, with Sulphate of Pot-	..

ash and Chloride of Potas- sium ...	6, 390	Chloromethylc Oxalate ...	9, 175
Chlorohyposulphite, Mercurous	6, 65	Chloromethyl-selenious acid ..	10, 492
Chloroid ..	1, 431	Chloromichnyl ...	12, 116
Chloroids ..	2, 18	Chloronaphthalates ..	14, 66
Chlorokinhydron ..	11, 188	Chloronaphthalin ..	14, 38
Chlorokinone ..	11, 185	„ Hydrochlorate ..	14, 39
Chloroleic acid ..	17, 101	„ Sulphate ..	14, 505
Chloromeconin ..	14, 441	Chloronaphthone, F ..	14, 61
Chloromenthene ..	14, 480	Chloronaphthyl, Chloride of, <i>see</i> Bichloronaphthalin.	
Chloromercurate of Ammonia ..	6, 84	Chloromceamide	11, 177
„ Berberine ..	17, 192	Chloroniceic acid ..	11, 176
„ Brucine ..	17, 581	„ ether ..	11, 178
„ Cinchonidine ..	17, 226	Chloromcene ..	14, 167
„ Cinchonine ..	17, 212	Chloromcine ..	14, 182
„ Chlorogenine ..	18, 191	Chloromtric acid ..	2, 477
„ Conine ..	13, 166	Chloromtrobenzoate of Baryta ..	12, 198
„ Corydaline ..	17, 609	„ Ethyl ..	12, 149
„ Cotanine ..	16, 133	„ Silver ..	12, 14
„ Ethylamine ..	9, 60	Chloromtrobenzoic acid ..	12, 138
„ Ethylmethyl- conine ..	13, 174	Chloronitroharman ..	16, 113
„ Ethylmeco- tine ..	14, 237	Chloronocern ..	15, 42
„ Ethylstrych- nine ...	17, 512	Chloropalladate of Ammonium ..	6, 353
„ Harmaline ..	16, 118	„ Potassium ..	6, 354
„ Laudanine ..	18, 198	„ Toluidine ...	12, 336
„ Methylamine ..	7, 317	Chloropallidite of Ammonium ..	6, 352
„ Methylbut- cine ..	17, 587	„ Barium ..	6, 355
„ Methylmeco- tine ..	14, 235	„ Cadmium ..	6, 356
„ Methyl- strychnine ..	17, 509	„ Calcium ..	6, 355
„ Morphine ..	16, 433	„ Chinoline ...	13, 251
„ Naphthyla- mine ..	14, 100	„ Cumidine ..	13, 351
„ Narceine ..	17, 600	„ Ethylamine ..	9, 62
„ Narcotine ..	16, 144	„ Magnesium ...	6, 355
„ Nicotine ..	14, 229	„ Manganese ..	6, 356
„ Nitroharma- line ..	16, 124	„ Nickel ..	6, 357
„ Nitrohar- mine ..	16, 111	„ Potassium ..	6, 354
„ Opiumine ...	16, 147	„ Sodium ..	6, 355
„ Papaverine ..	18, 203	„ Strychnine	17, 498
„ Piperine ..	18, 22	„ Zinc	6, 356
„ Quindine ...	17, 300	Chlorophane ...	1, 196
„ Quinine ..	17, 284	Chlorophenyle Benzoate	12, 89
„ Sparteine ...	13, 152	Chlorophenylmesatin	13, 84
„ Strychnine ..	17, 497	Chlorophosphate of Lead ...	5, 149
„ Tetraethylum ..	9, 68	Chlorophosphide of Nitrogen ...	2, 474
„ Thebenine ..	18, 211	„ Nitrogen, composition of the residue ob- tained by heating	2, 410
„ Triphenyla- mine ..	13, 306	Chlorophosphate of Lead	5, 149
Chloromercurite of Ammonia	6, 83	Chlorophosphoric acid, <i>see</i> Oxy- chloride of Phosphorus.	
Chloromethylase ..	7, 342	Chlorophyll ...	17, 3
Chloromethylc Formiate ...	7, 309	Chloropyranyl ..	14, 441
		Chloropyrin ..	11, 216
		„ relation of, to ful- minic acid	12, 553
		Chloropicryl ...	11, 235
		Chloroplatinate of Acediamine ..	12, 546
		„ Acetonne	13, 378
		„ Alanine	9, 436

Chloroplatinate of	Amarine	12, 197	Chloroplatinate of	Conine	13, 167
"	Amidanisic acid .	13, 145	"	Copper .	6, 337
"	Amidocuminic acid .	14, 175	"	Corydaine	17, 609
"	Amidosulphobenzene ..	11, 348	"	Cotarnine .	16, 133
"	Ammonium .	6, 307	"	Cumaramine	13, 338
"	Amylamme .	11, 107	"	Cumidine	13, 351
"	Aniline .	11, 261	"	Cyanethine..	13, 236
"	Anisidine . .	12, 266	"	Cyaniline	11, 362
"	Anisine .	13, 146	"	Cymidine .	14, 219
"	Arbine .	17, 563	"	Diplatoso-methylamine	7, 318
"	Aricine .	17, 571	"	Dulcamarine	13, 99
"	Atropine .	16, 455	"	Ecgonine	16, 304
"	Barium ..	6, 327	"	Ethylamine	9, 61
"	Bebirine	17, 172	"	Ethylbrucine	17, 588
"	Benzidine ..	11, 340	"	Ethyl-collidine	13, 150
"	Benzoyl-cinchonine .	17, 234	"	Ethylconine	13, 171
"	Berberine	17, 194	"	Ethylene-brucine ...	17, 589
"	Biamidobenzonic Acid .	12, 150	"	Ethyl-lepidine	14, 121
"	Biamidosulphobenzene	11, 349	"	Ethylmethylconine .	13, 175
"	Bichloro-cinchonine	17, 238	"	Ethyl-nicotine	14, 238
"	Bicinamylamine	13, 306	"	Ethyl-piperidine ...	10, 451
"	Biehopiperidine	10, 452	"	Ethyl-pyrindine	10, 408
"	Bieethylconine	13, 173	"	Ethyl-quinidine ..	17, 310
"	Biphenaniline	11, 335	"	Ethyl-quinine	17, 309
"	Bromaniline	11, 279	"	Ethylstrychnine ..	17, 512
"	Bromo-cinchonine ..	17, 235	"	Ethyl-toluidine	12, 340
"	Brucine	17, 582	"	Ferrous .	6, 337
"	Cacothelme	17, 359	"	of Furfurine	10, 381
"	Cadmium	6, 335	"	Guanine ..	10, 483
"	Caffeine ...	13, 234	"	Harmaline .	13, 119
"	Calcerum . .	6, 329	"	Harmine ...	13, 107
"	Caprylamine	13, 221	"	Hydrastine	17, 545
"	Casein ...	13, 316	"	Hydroberberine	17, 256
"	Chelidonine	17, 166	"	Hydrocinchonine ..	17, 231
"	Chinoline	13, 251	"	Lanthopine..	13, 197
"	Chloraniline	11, 284	"	Laudanine ...	13, 198
"	Chlorocodeme	17, 40	"	Lecithine .	13, 378
"	Chlorogenine	13, 191	"	Lepidine	14, 104
"	Chloronitro-harmine ..	13, 115	"	Lophine ...	12, 203
"	Cinchonidine	17, 226	"	Lutidine ...	12, 339
"		618	"	Magnesium.	6, 330
"	Cinchonine....	17, 212	"	Manganese	6, 332
"	Cobalt . .	6, 337	"	Meconidine..	13, 200
"	Cocaine ..	13, 303	"	Melaniline .	11, 355
"	Codamine	13, 193	"	Menaphthylamine ..	14, 127
"	Codeine ...	17, 35	"	Mercurialine	13, 201
"	Collidine ...	13, 149	"	Methylamine	7, 318
"	Conhydrine ..	13, 169	"	Methyl-biethylamine	11, 110

Chloroplatinate of Methyl-brucine	17, 587	Chloroplatinate of Terbromoco-	
" Methyl-lutidine	12, 310	deme	17, 39
" Methyl-nico-		Tetramethylum	7, 321
" tinc	14, 236	" Tetramethyl-	
" Methyl-pipe-		phosphonium	12, 493
" ridine	10, 450	" Tetramyla-	
" Methyl-strych-		mine	11, 112
" nne	17, 509	" Tetrethylum	9, 68
" Methyl-triethyl-		" Tetriethylphos-	
phosphonium	12, 528	phonium	12, 557
" Methylura-		" Thebaine	18, 170
" mine	9, 358	" Thebenine	18, 211
" Metoludine	12, 342	" Theobromine	12, 473
" Morphine	16, 433	" Toluidine	12, 336
" Naphthyl-		" Triethamyla-	
amine	14, 100	mine	11, 111
" Narceme	17, 600	" Triethaniline	11, 308
" Narcogenine	16, 150	" Triethylamyl-	
" Narcotine	16, 141	phospho-	
" Neurine	18, 381	num	12, 529
" Nickel	6, 337	" Triethylphos-	
" Nicotine	14, 231	phine	12, 525
" Nitraniline	11, 291	" Triethyl-to-	
" Nitranisidine	12, 268	ludine	12, 342
" Nitrocodaine	17, 41	" Trimethyl-	
" Nitroharma-		amyl-phos-	
line	16, 125	phonium	12, 529
" Nitroharmine	16, 111	" Trimethylphos-	
" Nitropapave-		phine	12, 492
rine	17, 261	" Tropine	16, 458
" Oxyacanthine	17, 199	" Xylidine	13, 147
" Oxy cinchonine	17, 232	" Zinc	6, 334
" Papaverine	17, 260	Chloroplatinic Acid	6, 294
"	18, 203	Chloroplatinate of Ammonium.	6, 307
" Paricine	17, 572	" Nicotine	14, 230
" Pelosine	17, 27	" Potassium	6, 322
" Picoline	11, 270	" Sodium	6, 326
" Piperidine	10, 449	" Stannous	6, 335
" Piperine	16, 23	Chloroplatinous Acid	6, 293
" Potassium	6, 322	Chloroplatinite of Zinc	6, 334
" Quindine	17, 301	Chloropropionate of Ethyl	13, 560
" Quinine	17, 286	Chloropropionic Acid	13, 559
" Rhocadine	18, 207	Chloropyrocetyl	10, 438
" Rhocaguine	18, 208	Chloropyromucate of Ethyl	10, 387
" Semnaphthyl-		Chloropyromucyl	11, 524
amine	14, 109	Chloroquinhydrone	11, 188
" Sinapine	14, 527	Chloroquinone	11, 185
" Sincaline	11, 116	Chlororceid	12, 357
" Sodium	6, 326	Chlororcein	12, 362
" Solamene	18, 89	Chlororcein	12, 357
" Solamidine	18, 87	Chlororhodiate of Ammonium	6, 365
" Solanine	18, 97	" Potassium	6, 366
" Sparteine	13, 153	" Sodium	6, 367
"	16, 282	Chlororhodic Acid	18, 416
" Stibmethylum	7, 323	Chlororubadin	16, 62
" Strontium	6, 323	Chlororubian	16, 46
" Strychnine	17, 498	Chlororubin	16, 70
" Strychnine-		Chlorosalihydramide	12, 348
bromethyl-		Chlorosalicin	15, 446
ammonium	17, 513	Chlorosalicylic acid	12, 296

Chlorosalicylite of Baryta	12, 295	Chloroxenaphthalise, Oxide of, <i>see</i>	
" Potash	12, 295	Chloride of Perchloroxynaph-	
Chlorosalicylous acid	12, 294	aln	14, 70
Chlorosaligenin	12, 293	Chloroxethide	9, 244
Chlorosamide	12, 348	Chloroxethose	9, 223
Chlorosantonin	16, 257	Chloroxynaphthalin, Chloride	14, 68
Chlorosmate of Potassium	6, 418	Chlorozincate of Spar te ne	16, 282
Chlorospinnelle	5, 275	" Strychnine	17, 496
Chlorostannate of Ammonium	5, 94	Chloro-sassafras Oil	14, 169
" Barium	5, 99	<i>Chlorure de Chlonaphthane</i> , Lau-	
" Magnesium	5, 100	rent's	14, 57
" Phosphuretted		" <i>Chloréthase</i>	9, 194
Hydrogen	5, 89	" <i>Chloréthèse</i>	9, 199
" Potassium	5, 97	" <i>Chloréthose</i>	9, 220
" Sodium	5, 98	" <i>Chloroxéthose</i>	9, 216
" Strontium	5, 99	<i>Chlostilbase</i>	12, 166
Chlorostannic acid	5, 88	Cholacrol ?	9, 503
Chlorostannite of Ammonium	5, 94	Cholalic acid, <i>see</i> Cholic acid.	
" Barium	5, 99	Cholate of Ethyl	18, 56
" Cinchonine	17, 211	" Methyl	18, 56
" Potassium	5, 97	Cholates, Metallic	18, 49
" Strontium	5, 99	Cholechlorin, <i>see</i> Biliverdin	18, 77
Chlorostannous acid	5, 84	Choleic acid, <i>see</i> Taurocholic	
Chlorostearic acid	17, 146	acid	18, 63
Chlorostilbene	12, 170	Cholesteric acid	13, 157
" Bromide	12, 170	Cholesterin	18, 107
" Hydrochlorate	12, 171	Cholesterin, detection and esti-	
Chlorostychnine	17, 515	mation of	18, 112
Chlorostyrcin	13, 299	" decompositions of	18, 113
Chlorosuberate of Ethyl	13, 214	" memoirs relating to	18, 109
Chlorosuccic acid	9, 429	" preparation of	18, 111
Chlorosuccilamide	9, 272	" properties of	18, 113
Chlorosuccinic acid	9, 273	" sources of	18, 110
Chlorosulphate of Lead	5, 150	Cholesterin, hydrated	18, 116
" Phenyl	13, 455	" Reichenbach's, from	
" Carbon	2, 335	coal-tar	18, 122
" Lead	5, 150	" with Acetic acid	18, 116
" Nitrogen	2, 475	" -soda	18, 116
" Phosphorus	2, 331	Cholesterone	18, 109
" Platinum ?	6, 295	Cholesteryl, Acetate of	18, 117
" Silicium	3, 361	" Benzoate	18, 118
" Tin	5, 90	" Butyrate	18, 118
Chlorosulphobenzene	11, 200	" Chloride	18, 117
Chlorosulphobenzoic acid	12, 117	" Stearate	18, 119
Chlorosulphobenzolic acid	11, 175	Cholic acid	18, 46
Chloro-sulphosomethylic acid	7, 301	Choline	18, 378
Chlorosulphonaphthalates	14, 38	Choloidanic acid	16, 412
Chlorosulphate of Ethyl	13, 455	Choloidic acid	18, 52
Chlorosulphuretted Ether	9, 225	Cholonic acid, <i>see</i> Glycocholic	
Chlorotellurate of Ammonium	4, 415	acid.	
" Potassium	4, 420	Chondrin	18, 359
Chlorotellurite of Ammonium	4, 415	" coloration of blow-	
Chlorotoluol	12, 291	pipe flame by	18, 257
Chlorous acid	2, 305	Chondrodite	3, 401
Chlorovinic and Chlorovinous		Chonicrite	3, 422
acids	8, 314	Chromate of Ammonia	4, 141
Chlorovinic Formiate	9, 229	" Amylstrychnine	17, 515
Chloroxalovinic acid	9, 245	" Antimonic oxide	4, 390
Chloroxamethane	9, 290	" Baryta	4, 153

Chromate of Berberine ...	17, 192	Chromate of Soda	4, 151
" Bismuth-oxide ..	4, 449	" Soda and Potash ..	4, 152
" Brucine ...	17, 581	" Sodium-chloride ..	4, 152
" Casein " ..	18, 314	" Stannic oxide ..	5, 102
Chromates of Cerous oxide ..	4, 154	" Stannous oxide ..	5, 102
Chromate of Calcium chloride ..	4, 154	" Strontia ..	4, 153
" Chlorogenne	18, 191	" Strychnine ..	17, 495
" Chinoline, . .	13, 249	" Thorina ..	4, 155
" Cinchonine	17, 211	" Uranic oxide ...	4, 194
" Cobalt-oxide ...	5, 347	" Vanadic oxide ..	4, 157
" Codeine ..	17, 33	" Yttria ..	4, 155
" Cupric Oxide ..	5, 467	" Zinc-oxide ..	5, 48
" Cupric oxide and		" Zinc-oxide and Pot-	
Ammonia ..	5, 468	ash ...	5, 48
" Cupric oxide and		Chromates ..	4, 119
Lead-oxide	5, 486	" action of Oxalic acid	
" Ethylene - strychnine ..	17, 514	on ...	13, 515
" Ethylstrychnine ..	17, 512	of Chromic oxide ..	4, 113
" Ferric oxide ..	5, 299	" Molybdic oxide ..	4, 156
" Glucina ..	4, 155	Chrome-iron-ore ..	4, 105, 5, 298
" Harmaline ..	16, 118	" -mica ..	3, 450
" Harmine ..	16, 106	" -red ...	5, 169
" Iridic oxide ..	6, 391	" -yellow,	5, 170
" Lead-oxide ..	4, 105; 5, 169	Chromic Acetate ..	8, 306
" use of in		" Acid ..	4, 116
ultimate analysis		" Acid, action of, on al-	
of organic com-		cohol ..	8, 243
pounds ..	7, 86	" Acid, action of, on or-	
" Lime ..	4, 153	ganic compounds ..	7, 126
" Lime and Potash ..	4, 154	" Acid, Hydrochlorate of	4, 137
" Lithia ..	4, 153	" Acid, Hydrofluat ..	4, 139
" Magnesia ...	4, 154	" Acid, Nitrate of ..	4, 140
" Magnesia and Pot-		" Acid, solubility of, in	
ash ..	4, 154	alcohol ..	8, 269
" Magnesium-chloride ..	4, 154	" Acid, Sulphate of ?	4, 128
" Manganous oxide....	4, 247	" Arseniate	4, 312
" Mercuric oxide	6, 114	" Borate ..	4, 122
" Mercurous oxide ..	6, 113	" Bromate	4, 130
" Methylstrychnine ..	17, 509	" Carbonate ..	4, 122
" Molybdic acid ..	4, 156	" Chrysammate ..	12, 5
" Nickel-oxide ..	5, 387	" Citrates ..	11, 453
" Nitro-harmaline ..	16, 124	" Cyanide	7, 419
" Nitro-harmine	16, 111	" Formiate	7, 279
" Paricine ..	17, 572	" Hydrate, reaction of,	
" Pelosine ..	17, 26	with Tanmic Acid ..	15, 466
" Platnic oxide ..	6, 331	" Hyposulphate ...	4, 125
" Potash ...	4, 144	" Iodate ..	4, 130
" Potash with Cyan-		" Lactate	11, 486
ide of Mercury ..	8, 23	" Metaphosphate ..	4, 123
" Potash with Sul-		" Molybdate	4, 156
phate of Pot-		" Nitrate	4, 140
ash	4, 150	" Oleate ..	17, 72
" Potassium-chloride	4, 150	" Oxalate ..	9, 137
" Quinine ..	17, 284	" Oxide ..	4, 108
" Sal-ammoniac ...	4, 143	" Oxide, with Ferric ox-	
" Silica ? ..	4, 155	ide ..	5, 299
" Silver-oxide ..	6, 184	" Oxide, with Ferrous	
		oxide ...	5, 298
		" Oxide, with Fluxes ..	4, 152

Chromic oxide, Hydrated	4, 112	Chromium Sulphocarbonate ..	4, 129
„ Oxide, reactions of, with		„ Sulphocyanide ..	8, 85
„ organic acids .	7, 209	„ Sulphomolybdate ...	4, 156
„ Phosphate ...	4, 123	„ Terfluoride of, with	
„ Phosphite .	4, 123	„ Ammonia ..	4, 143
„ Pyrophosphate .	4, 123	„ Tersulphide of, with	
„ Racemate .	10, 355	„ Hydrosulphate of	
„ Saccharate ..	11, 519	„ Ammonia .	4, 142
„ Salts	4, 113	„ and Iron, Carbide of	5, 300
„ Selenite ..	4, 129	„ and Iron, Cyanides of	7, 487
„ Stannate ?	5, 101	„ and Iron, Oxides of	5, 298
„ Succinate ?	10, 123	„ and Iron, Sesquioxide	
„ Sulpharsenate	4, 313	„ of, with Protoxide	
„ Sulpharsenite .	4, 312	„ of Iridium	6, 425
„ Sulphate .	4, 125	„ and Lead, Tartrate of	10, 313
„ Sulphite	4, 125	„ and Potassium, Sul-	
„ Tartrate .	10, 294	„ phide of .	4, 147
„ Tellurate	4, 426	„ and Silicon, Fluoride	
„ Tellurite ...	4, 426	„ of	4, 156
„ Tungstate ..	4, 156	Chromoso-chromic Oxide	4, 107
Chromico-ammonic Carbonate	4, 142	Chromosopotassic Sulphate	4, 147
„ „ Sulphate ..	4, 142	Chromous Acetate .	8, 305
„ -potassic Carbonate	4, 117	„ Benzoate ..	12, 40
„ „ Pyrophosphate	4, 147	„ Borate	4, 122
„ „ Sulphate	4, 147	„ Carbonate .	4, 121
„ -sodic Sulphate	4, 152	„ Cyamide ...	7, 419
Chromidcyanide of Cobalt ..	7, 495	„ Oxide	4, 106
„ „ Potassium	7, 420	„ Phosphate	4, 123
„ „ Silver	8, 31	„ Salts .	4, 107
„ „ Lead ?	7, 428	„ Succinate ..	10, 123
„ „ Zinc ..	7, 425	„ Sulphate .	4, 125
Chromide of Manganese ..	4, 247	„ Sulphite	4, 124
Chromite of Ammonia ..	4, 140	Chryiodin	12, 13
„ „ Magnesia ..	4, 154	Chrysammates, metallic	12, 3-7
„ „ Potash ...	4, 144	Chrysammic acid	12, 1
„ „ Soda	4, 151	Chrysammide ..	12, 7
Chromium ...	4, 105	Chrysamilates ...	12, 331
„ Bromide	4, 130	Chrysammic acid ...	12, 329
„ Brown Nitrate ..	4, 140	Chrysamisate of Ethyl	12, 303
„ Brown Oxide	4, 113	Chrysamisates, metallic	12, 302
„ Chlorides .	4, 130	Chrysammic acid	12, 302
„ Fluorides .	4, 137	Chrysatric acid ..	12, 12
„ Iodide .	4, 129	Chrysene ...	15, 1
„ Nitride ...	4, 139	Chrysæmatin, <i>see</i> Hæmatoxylin	
„ Oxides .	4, 106	Chrysindamide ...	12, 15
„ Oxychloride	4, 134	Chrysindide of Ammonium oxide	12, 15
„ Persulphomolybdate	4, 156	Chrysitis ...	5, 109
„ Phosphide .	4, 122	Chrysoberyl ...	3, 329
„ Sesquichloride, solu-		Chrysocolla .	5, 465
„ bility of, in alcohol	8, 269	Chrysocolla, Plinius'	3, 87
„ Sesquifluoride of, with		Chrysogen ..	18, 172
„ Fluoride of Potas-		Chrysorhamme, <i>see</i> Nitroharma-	
„ sium	4, 151	„ line	18, 122
„ Sesquifluoride of, with		Chrysordin .	16, 521
„ Fluoride of Sodium	4, 152	Chrysolite ..	3, 395
„ Sesquifluoride of, with		Chrysophanates	16, 175
„ Hydrofluat of Am-		Chrysophane	3, 462
„ monia ...	4, 143	Chrysophanic acid	16, 171; 18, 24f
„ Sulphides	4, 123	Chrysorhamnin .	16, 75

Chylarlose	15, 336	Cinchonidine Hydrochlorate ...	17, 225
Cicutine	18, 192		228, 612
Cider-vinegar ..	8, 284	" Hydroferrocyanate	17, 613
Cimicic acid of Ethyl .	18, 286	" Hydrofluante	17, 225
Cimicic acid, metallic	16, 284	" Hydrosulphocyanate	17, 227
Cimicic acid .	16, 284	" Hypophosphite .	17, 611
Cimicyl chloride .	16, 286	" Hyposulphite	17, 224, 611
Cimolite . . .	8, 419	" Iodomercurate .	17, 226
Cinacrol . . .	14, 322	" Kinate ...	17, 227
Cinaebene .	14, 319	" Nitrate	17, 225, 229, 613
" Hydrated	14, 320	" Oxalate .	17, 227, 613
" Hydriodate	14, 320	" Phosphate	17, 223
Cinaephene . . .	14, 321	" Succinate .	17, 614
Cinaphane . .	14, 318	" Sulphate	17, 224, 228, 611
Cinaphene .	14, 319	" Tartrate	17, 227, 229, 614
Cinchona-bark, estimation of quinine and cinchonine in	17, 268	" and Antimony, tartrate of .	17, 614
" occurrence of kinovin in	18, 26	" Valerate	17, 227
" occurrence of quinidine in	17, 296	Cinchonidine, solutions of	17, 223, 227, 615
" preparation of Kinic acid from	18, 223	Cinchonine, decompositions of	17, 202
" preparation of quinine and cinchonine from	17, 264	" estimation of, in cinchona-bark	17, 268
" proportions of quinine and cinchonine in	17, 264	" estimation of, in its salts	17, 205
" tannic acids from	15, 479	" history, sources, preparation .	17, 200
" yellow, phlobaphene from	15, 495	" memoirs relating to	17, 199
Cinchona-bases, compounds of, with iodine and sulphuric acid .	17, 311	" properties of	17, 201
" -red	15, 482	Cinchonine-salts	17, 205
" -red, with quinine	17, 293	" Acetate	17, 216
" -resin	17, 263	" Antitartrate .	17, 217
Cinchonatannic Acid .	15, 479	" Arseniate .	17, 211
Cinchona-trees, East Indian, kinovic acid in ..	18, 24	" Aspartate ...	17, 216
Cinchona-yellow ..	17, 314	" Benzoate	17, 219
Cinchonicine ...	17, 230	" Bihydriodate .	17, 610
Cinchonidine	13, 336	" Carbonate ..	17, 206
" (Pasteur's)	17, 220, 610	" Chlorate .	17, 208
" (Wittstein's)	17, 228	" Chloroaurate	17, 218, 610
Cinchonidine-salts	17, 223, 229, 611	" Chlorocadmiate	17, 211
" Acetate	17, 227, 229, 613	" Chloromercurate .	17, 212
" Benzoate	17, 615	" Chloroplatinate	17, 212
" Butyrate ...	17, 227	" Chlorostannite	17, 211
" Chlorate ..	17, 224	" Chromate ...	17, 211
" Chloroaurate .	17, 613	" Citrate .	17, 218
" Chloromercurate .	17, 226	" Croconate .	17, 218
" Chloroplatinate	17, 226, 613	" Cyanoplatinate ..	17, 214
" Citrate	17, 227, 614	" Cyanurate .	17, 216
" Formiate ..	17, 227	" Dextrotartrate .	17, 217
" Hippurate ...	17, 227	" Formiate .	17, 216
" Hydriodate (bi)	17, 612	" Hippurate .	17, 219
		" Hydriodate	17, 208
		" Hydriodate, with Cyanide of Mercury	17, 214
		" Hydrobromate, with Cyanide of Mercury	17, 214
		" Hydrochlorate	17, 209
		" Hydrocyanate	17, 213
		" Hydroferricyanate	17, 214
		" Hydroferrocyanate	17, 213

Cinchonne, Hydrofluat	17, 210	Cinnamol	13, 1
„ Hydrosulphocyanate	17, 215	Cinnamomin	13, 1
„ Hyposulphate	17, 206	Cinnamon, bitter of white	18, 244
„ Hyposulphite	17, 206	„ oil, iodine, and iodide	
„ Iodate	17, 206	„ of potassium, com-	
„ Iodomercurate	17, 211	„ pound of	13, 287
„ Kinat	17, 220	„ oil of	13, 258
„ Mellitate	17, 216	„ oil, resins from	13, 264
„ Nitrate	17, 210	„ -leaves, oil of, from	
„ Oxalate	17, 216	„ Ceylon	14, 210
„ Oxalurate	17, 216	Cinnamyl Chloride	13, 294
„ Perchlorate	17, 209	„ Cyanide	13, 299
„ Periodate	17, 208	„ Hydride	13, 258
„ Phosphantimonate	17, 211	Cinnamylide	13, 303
„ Phosphate	17, 206	Cinnanitranisidine	13, 304
„ Picrate	17, 219	<i>Cipo de Cananum</i> , phosphores-	
„ Rhodizonate	17, 218	„ cence of the milky juice of	1, 188
„ Roccellate	17, 220	Circular polarisation, develop-	
„ Succinate	17, 216	„ ment of, by the action	
„ Sulphate	17, 206	„ of magnetism	
„ Tartrate	17, 216	„ on the electric cur-	
„ Tartrate, formation		„ rents	1, 168
„ of racemic acid		„ polarisation in organic	
„ from	10, 347	„ liquids	7, 54
„ Urate	17, 218	Cissotannic acid	15, 516
Cinchonne, solutions of	17, 205, 220	<i>Cisticus creticus</i> , resin of	17, 422
„ -sulphuric Acid	17, 232	Citracobunitranil	11, 322
Cinchonne and Antimony tar-		Citracobunitranilic acid	11, 325
„ trate of	17, 218	Citracodinitranil	11, 322
„ and Quinine, prepa-		Citraconamide	10, 436
„ ration of	17, 264	Citraconanil	11, 321
„ and Quinine, pro-		Citraconanilic acid	11, 323
„ portions of in cin-		Citraconates, metallic	10, 419
„ chona bark	17, 264	Citraconazophenylamide	11, 326
„ and Quinine, purifi-		Citraconic acid	10, 417
„ cation of	17, 265	„ anhydride	10, 435
<i>Cineres clavellati depurati</i>	3, 14	„ ether	10, 423
Cinnabar	6, 19	Citraconimide	10, 437
Cinnamate of Ethyl	13, 281	Citraconodianil	11, 322
„ Methyl	13, 281	Citraconyl and Phenyl, nitride	
„ Styraen	13, 289	„ of	11, 321
Cinnamates, metallic	13, 273	Citramide	11, 465
Cinnamem	13, 283	Citranilate of Aniline	11, 467
Cinnamene	13, 1	„ Silver	11, 466
„ Bromide	13, 15	Citranilic acid	11, 465
„ Chloride	13, 16	Citranilide	11, 469
Cinnamic acid	13, 268	Citrate of Alumina	11, 452
„ acid, chlorinated oil		„ of Ammonia	11, 445
„ from	13, 297	„ Ammonio-ferric	11, 457
„ alcohol	13, 286, 256	„ Ammonio-mercuric	11, 460
„ aldehyde	13, 258	„ Ammonio-mercurous	11, 460
„ aldehyde, compound		„ of Aniline	11, 462
„ of, with alkaline bi-		„ Argentio	11, 461
„ sulphites	13, 263	„ Argentous	11, 461
„ aldehyde, Hydrochlo-		„ of Baryta	11, 448, 449
„ rate of	13, 262	„ Cadmium	11, 454
„ aldehyde, Nitrate of	13, 262	„ Cerous	11, 452
„ anhydride	13, 292	„ of Chromium	11, 453
„ ether	13, 281	„ Cinchonidine	17, 227, 614

Citrates of Cinchonine ...	17, 218	Clay . . .	3, 415
„ Cobalt . . .	11, 458	„ ferruginous, occurrence of	
„ Cupric . . .	11, 459	humus in . . .	17, 460
„ of Ethyl . . .	11, 463	Cleavage of Crystals . . .	1, 18, 147
„ Ferric ...	11, 458	Clematidin ...	18, 215
„ Ferrous . . .	11, 457	Cloud, formation of . . .	1, 288
„ of Glucina ...	11, 452	Clove-cinnamon, Brazilian, vola-	
„ Lead . . .	11, 455, 457	tile oil of	14, 210
„ Lime . . .	11, 450, 451	„ -oil, stearoptene of ..	14, 187
„ Lithia . . .	11, 448	Cloves, indifferent or neutral oil of	14, 285
„ Magnesia ...	11, 451	„ oil of . . .	14, 209
„ Manganese . . .	11, 453	Cnicm . . .	16, 97
„ Mercuric . . .	11, 460	Coal, Boghead Cannel, Alcohol-	
„ Mercurous . . .	11, 459	radicals from . . .	13, 386
„ of Methyl . . .	11, 462	„ destructive distillation of	
„ Nickel . . .	11, 409	7, 82; 15, 154	
„ Palladium . . .	11, 461	„ -tar camphor, <i>see</i> Naph-	
„ Potash . . .	11, 446	thalam	
„ Potash and Ammonia	11, 446	„ -tar, constituents of	15, 155
„ Potassio-antimonic	11, 453	„ -tar, light oil of . . .	11, 135
„ of Quinine	17, 292, 616	„ -tar naphtha, heavy	11, 135
„ Silver . . .	11, 460	„ -tar naphtha, light	11, 135
„ Silver and Calcium	11, 461	„ -tar naphtha, preparation	
„ Soda . . .	11, 447	of Cumene from . . .	13, 339
„ Soda and Ammonia	11, 448	„ -tar, preparation of Aniline	
„ „ Potash . . .	11, 448	from . . .	11, 247
„ Sodio-ferric ..	11, 458	„ -tar, preparation of Ben-	
„ Telluric . . .	11, 454	zene from . . .	11, 134
„ of Strontia . . .	11, 449, 450	„ -tar, preparation of Carbohic	
„ Uranium	11, 453	acid from . . .	11, 145
„ Thorina . . .	11, 452	„ -tar, preparation of Pico-	
„ Vanadium . . .	11, 452	line from . . .	11, 264
„ Yttria . . .	11, 452	„ -tar, Ruchenbach's Chole-	
„ Zinc	11, 454	sterin from . . .	18, 122
„ Zirconium ...	11, 452	Coarse Copper . . .	5, 398
Citrene ...	14, 304	„ Metal ..	5, 398
Citric acid . . .	11, 436	Cobalt, Acetates ...	8, 322
„ hydrates ...	11, 442	„ Alloxanate . . .	10, 167
„ preparation of Aco-		„ Alloys ...	5, 354
nitic acid from . . .	11, 403	„ Aluminate ...	5, 345
Citric ether . . .	11, 468	„ Amalgam . . .	5, 129
Citrilene . . .	14, 304	„ Ammonio-bromide	5, 340
Citrobianil . . .	11, 467	„ Ammonio-chloride ...	5, 342
Citrobianilate of Aniline	11, 469	„ Ammonio-iodide	5, 340
Citrobianilic acid . . .	11, 468	„ Ammonio-sesquibro-	
Citrobisglycerin . . .	13, 582	midé? ..	5, 341
Citromannitan ...	15, 378	„ -oxide, Ammonio-sul-	
Citronyl, <i>see</i> Citrene.		phate . . .	5, 339
Citrus <i>Lumia</i> , volatile oil of	14, 509	„ Ammonio-sulphocyanide	8, 89
Citryl Hydrochlorate . . .	14, 301	„ Antimonate ..	5, 353
„ Oxychloride	11, 470	„ Antimonite . . .	5, 353
Citrylene Hydrochlorate	14, 301	„ Arsenate ...	5, 349
<i>Cladonia rangiferina</i> , prepara-		„ Arsenite . . .	5, 349
tion of Usnic acid from . . .	17, 48	„ Amylosulphate . . .	11, 59
Classification of Organic Com-		„ Antimonide . . .	5, 353
pounds ...	7, 147	„ Argentocyanide . . .	8, 32
„ of Organic Com-		„ Arsenide . . .	5, 348
pounds accord-		„ Arsenide of, with sul-	
ing to Laurent	7, 23	phide of cobalt . . .	5, 351

Cobalt,	Benzoate .	....	12, 43	the combination of			
"	Bisulphide ..	...	5, 332	hydrogen and oxygen	2, 53		
"	Borate		5, 329	Cobalt, Rhodizonate	10, 403		
"	Bromate		5, 336	" Seleniate ..	5, 334		
"	Bromide ...		5, 335	" Selenide .	5, 334		
"	Carbonate .		5, 328	" Selenite ...	5, 334		
"	Chlorate ...		5, 337	" separation of, from man-			
"	Chloride .		5, 336	ganese ..	5, 321		
"	Chloride of, with cyanide			" separation of, from			
"	of mercury .	...	8, 26	mickel ..	5, 319, 360		
"	Chloroplatinate ..		6, 337	" Sesquisulphide	5, 332		
"	Chromate .	...	5, 347	" Silicate .	5, 345		
"	Chromidcyanide		7, 495	" Stannate	5, 354		
"	Cinnamate .		13, 277	" Styphnate ..	11, 234		
"	Citrate ..		11, 458	" Suberate ..	13, 211		
"	Cobaltidcyanide .		7, 497	" Succinate ..	10, 127		
"	Croconate ..		10, 394	" Sulphantimonate	5, 353		
"	Cyanides .		7, 492	" Sulpharsenite ..	5, 351		
"	Earthy ..	4, 195, 204		" Sulphate .	5, 333		
"	Ferridcyanide ...	...	7, 497	" Sulphides ...	5, 331		
"	Ferrocyanide .		7, 496	" Sulphide of, with arse-			
"	Fluoride .		5, 337	nide of cobalt	5, 351		
"	with Fluxes ...		5, 344	" Sulphite ...	5, 333		
"	Formiate ..		7, 281	" Sulphocarbonate	5, 334		
"	Fumarate ..		10, 29	" Sulphocyanide	12, 499; 8, 89		
"	Gallate .		12, 410	" Sulphomolybdate	5, 347		
"	Hippurate .		12, 80	" Sulphotellurite	5, 353		
"	Hypophosphite .		5, 330	" Sulphotungstate	5, 346		
"	Hyposulphate ...		5, 333	" Sulphovinate ..	8, 427		
"	Hyposulphite ..		5, 333	" Tellurate .	5, 353		
"	Iodite ..		5, 335	" Tellurite ...	5, 353		
"	Iodide ..		5, 335	" Tungstate	5, 346		
"	Kinate ....	...	10, 232	" Valerate	11, 36		
"	Lactate		11, 492	" Vanadate .	5, 347		
"	Leucate		15, 62	" and Ammonium, Car-			
"	Mellitate		10, 9	bonate of ...	5, 339		
"	Metaphosphate ..		5, 331	" and Ammonium, Fluo-			
"	Molybdate .		5, 347	ride of ..	5, 342		
"	Nitrate ..		5, 338	" and Ammonium, Iodate			
"	Oleate ..		17, 72	of .	5, 340		
"	Oxalate .		9, 160	" and Ammonium, Nitrate			
"	Oxides ..	...	5, 322	of .	5, 342		
"	Oxyfluoride ..	...	5, 338	" and Ammonium, Sul-			
"	Oxyiodide ...		5, 335	phate of	5, 340		
"	Oxysulphide ...		5, 332	" and Calcium, Hypophos-			
"	Persulphomolybdate	....	5, 347	phate of ..	5, 344		
"	Phosphates ...		5, 330	" and Copper, Sulphate			
"	Phosphide		5, 329	of	5, 496		
"	Phosphite		5, 330	" and Gold, alloy of	6, 246		
"	Picrate .		11, 225	" " chloride of...	6, 246		
"	Platinocyanide of, with			" and Iron, alloy of	5, 354		
"	ammonia ...	...	8, 55	" and Nickel, alloy ..	5, 397		
"	Protosulphide		5, 331	" and Mercury, chloride			
"	Pyrophosphate ..		5, 331	of ..	6, 129		
"	Pyrotartrate ..	...	11, 97	" and Nickel, cyanide of	7, 500		
"	Racemate ....	...	10, 358	" " tartrates of	10, 320		
"	reactions of ..	...	5, 324	" " double salts			
"	reduced by hydrogen,			" of, with tartrate of			
"	effect of, in inducing			potassium	10, 320		

Cobalt and Potassium, carbonate of	5, 343	Cobaltous Oxide with Zinc-oxide	5, 353
„ and Potassium, fluoride of	5, 344	„ Salts	5, 324
„ and Potassium, racemate of	10, 358	„ „ reaction of with Tannic acids	15, 470
„ and Potassium, sulphate of	5, 344	„ „ solubility of in alcohol	8, 271
„ and Silicon, hydrated fluoride of	5, 345	Cobalt-speiss, preparation of	
„ and Sodium, carbonate of	5, 344	nickel from	5, 355
„ and Sodium, metaphosphate of	5, 344	<i>Cobaltum</i>	5, 316
„ and Tin, alloy of	5, 354	„ of the druggists	4, 249
„ and Zinc, alloy of	5, 353	Cobalt-uramic Acetate	13, 445
„ „ sulphate of	5, 354	„ -vitriol	5, 333
„ -bloom	5, 349	Cocaine	16, 306
„ -coating	5, 349	Cocatanic Acid	15, 518
„ -glance	5, 351	Coca-wax	18, 159
„ -glass	5, 346	Cocculus-grains, brown acid from	
Cobaltic acid ?	5, 328	the husks of	14, 477
„ oxide	5, 326	„ fat of	16, 389
„ „ hydrate	5, 327	<i>Cocculus indicus</i> , preparation of	
„ salts	5, 328	menispermene from the berries	
Cobaltidcyanide of Ammonium	7, 493	of	17, 52
„ Barium	7, 495	Cochineal fat	16, 389
„ Cadmium	7, 495	„ preparation of carminic acid from	16, 205
„ Cobalt	7, 497	„ preparation of tyrosine from	13, 360
„ Copper	8, 10	„ -red	16, 205
„ Iron	7, 497	Cocinyl, Hydride, <i>see</i> Tridecatyl, hydride	16, 532
„ Lead	7, 495	Cockchafters, occurrence of	
„ „ with Oxide of Lead	7, 496	in	15, 196
„ Manganese	7, 495	Cocoa-fat or butter	16, 389
„ Mercury ?	8, 26	„ -nut fat, caprylic acid in	13, 190
„ Nickel	7, 500	„ „ preparation of caproic acid from	11, 415
„ Potassium	7, 194	„ oil	16, 389
„ Silver	8, 32	Coculostearic Acid	16, 365
„ Sodium	7, 494	Codamine	18, 192
„ Tin	7, 495	Codens	17, 27
„ Zinc	7, 495	„ bihydrated	17, 31
Cobaltine	5, 348	„ compound of with Iodine	17, 32
Cobaltite of Magnesia	5, 345	„ salts	17, 32
„ Potash	5, 343	Cod-liver oil	16, 323
„ Soda	5, 344	Colestane	3, 174
Cobalto-bromate of Ammonia?	5, 341	Coffee-beans, preparation of caffe-tannic acid from	15, 505
„ -hyposulphate of Ammonia	5, 339	„ preparation of kinic acid from	16, 224
„ -nitrate of Ammonia	5, 342	Coffee fat	16, 390
Cobaltoso-cobaltic Oxalate	9, 161	„ oil	14, 366
„ Oxide	5, 326	„ preparation of caffeine	
„ -cupric Sulphate	5, 496	from	13, 225
Cobalt-pyrites	5, 332	Cohesion	1, 6—8
„ -speiss	5, 388	„ increased by pressure	1, 112
Cobaltous Oxide	5, 322	„ influence of, on decomposition	1, 112
„ hydrated	5, 323	„ variations in the force of, produced by heat	1, 112, 113
„ with Peroxide of Manganese	5, 347		

- Cohesive powers, bodies classed according to 1, 7
 Cohobation .. 1, 288
 Coke, preparation of, by dry distillation of coal .. 7, 82
 Colchicine 17, 604
 Colchicine 17, 601
 Coleothar 5, 195
 Cold produced by vaporization 1, 272
 „ production of, by chemical action 1, 297
 „ radiation of 1, 213
 „ -short bar iron 5, 205
 „ water, substances more soluble in, than in hot . 1, 113
Colle d'Amidon 15, 95
 Collidine . . . 13, 148
 Colloidal condition of sucrates 15, 538
 Collyrite 3, 411
 „ of Weissenfels .. 3, 413
 Colocynth, resin of . . 17, 558
 Colocynthein 17, 556
 Colocynthin 15, 342, 17, 556
 Colocynthinin . . . 17, 558
 Colombo-root, preparation of berberine from . 17, 187
 Colophan 17, 421
 Colophene 14, 279
 „ from Camphor . 14, 280
 Colophony 18, 9
 „ preparation of Sylvic acid from . 17, 319
 Colour of a compound, law of Persoz respecting 1, 96
 „ dispersion of . . 1, 164
 „ of flame . . . 2, 30
 Coloured fabrics, bleaching of, by exposure to sunshine 7, 95
 „ effects of heat on . 7, 96
 Colouring matter (green) of oysters .. 18, 422
 „ in the mantle of the black dew-snail ... 18, 419
 „ (purple) formed on mouldy bread, potatoes, meat, &c. 18, 421
 „ of *Rottlera tinctoria* 17, 378
 „ of the sea-owl or lump fish *pilans*) ... 18, 421
 Colouring matters of birds' feathers 18, 419
- Colouring matters of crabs and lobsters .. 18, 420
 „ of plants, blue and red .. 16, 522
 „ yellow .. 16, 513
 „ of urine . 18, 407
 Colour-makers' composition 5, 88
 Colours of bodies, effect of heat on .. 1, 238
 „ flowers, alteration of, by exposure to light 1, 170, 171
 „ organic compounds 7, 64
 Columbic acid .. 17, 529
 Columbin .. 17, 528
 Columbite .. 4, 19; 5, 292
 Columbium 4, 1
 Colza oil . 17, 554
 Combination attended with development of electricity ... 1, 39
 „ attended with development of heat 1, 38
 „ attended with development of light 1, 181
 „ alteration in density caused by 1, 64
 „ Berthollet's theory of . 1, 149
 „ change of volume attending 1, 64—86
 „ circumstances and results of 1, 38
 „ conditions necessary for ... 1, 35
 „ crystallisation effected by . 1, 8—12
 „ definition of 1, 33—149
 „ how produced . 1, 149
 „ induced by affinity 1, 154
 „ induced by communication of chemical energy 1, 38
 „ induced by electric attraction . 1, 154
 „ induced by universal attraction .. 1, 153
 „ influence of affinity on 1, 35—154
 „ influence of cohesion on 1, 6
 „ influence of condensation on 1, 37
 „ influence of contact on 1, 36
 „ influence of electricity on 1, 37
 „ influence of expansion on.... 1, 37

Combination, influence of light on	1, 37	Combustion, imperfect, formation of humus by	17, 460
„ influence of liquidity or gasety on	1, 36	„ memoirs relating to	2, 19
„ influence of presence of other bodies on .	1, 37	„ in oxygen, table of the quantities of heat evolved by ..	1, 292
„ influence of temperature on ...	1, 36	„ spontaneous, of fixed oils ..	7, 242
„ laws relating to .	1, 41	„ supporters of	2, 18
„ mechanical	1, 20	„ theories of ...	2, 35
„ and mixture, difference between	1, 149	„ -tube for ultimate analysis of organic compounds	7, 86
„ of ponderable bodies, development or absorption of heat accompanying	1, 291	Comenamate of ethyl	11, 395
„ qualitative alterations of elements caused by	1, 64—111	Comenamic acid	11, 393
„ theories of	1, 148—159	Comenates, metallic ..	11, 384—388
„ time in which it takes place .	1, 38	Comenic acid	11, 382
Combinations, accompanied by decompositions, electricity developed by .	1, 340	Comferin	18, 84
„ brought about by electrical influence	1, 429	Common salt . . .	3, 110
„ chemical, accompanied by decompositions produced by the agency of light	1, 170	Commercial Carbonate of Ammonia, impurities in	2, 432
„ chemical, produced by the agency of light ..	1, 170	Common salt, preparation of carbonate of soda from ..	3, 79
Combining volumes of gases ...	1, 66	traces of mercury	6, 2
„ weights or proportions	1, 42	Compact manganese	4, 203
Combustibles	2, 19	Compound atoms .	1, 42, 147
Combustion ..	1, 181; 2, 24	„ bodies, heat developed in the combination of	1, 294
„ cause of the development of heat and light in . .	2, 36	„ radicals	7, 10
„ conditions of ..	2, 24	Compounds, amorphous .	1, 102
„ conditions of continuity of ..	2, 32	„ atomic weights of .	1, 59
„ decomposition of organic compounds by	7, 84	„ chemical relations of	1, 96
„ development of electricity by	1, 329	„ colour of ..	1, 96
„ electrochemical	2, 37	„ crystalline forms of	1, 87—93
„ theory of ..	2, 33	„ decomposition of 1, 111—145	1, 111—145
„ extinction of ..	2, 33	„ density of ...	1, 65—86
„ of glycerides	7, 241	„ differences of properties in, due to different modes of arrangement of the component atoms	1, 98, 108
		„ division of, into organic and inorganic . . .	2, 2
		„ and their elements, relations between the densities of	1, 55, 67
		„ formation of	1, 35—111
		„ formation of, according to Persoz's law	1, 96
		„ formed by absorption ..	1, 86
		„ formed by condensation ...	1, 84
		„ formed by mixture	1, 86
		„ formed by solution	1, 86

Compounds formed by substitution ..	1, 37	Contact, influence of, on decomposition ..	1, 115
„ fusibility of ..	1, 93	Contact-theory of galvanism ..	1, 510
„ heat-capacity of the atoms of ..	1, 248	Contraction accompanying solidification ..	1, 256
„ isodimorphous	1, 99	Convallamaretin ..	16, 221
„ isomeric ..	1, 108	Convallamarin	15, 342; 16, 220
„ isomorphous ..	1, 87	Convallaretin ..	16, 219
„ liquid and solid, table of specific heats of ..	1, 244	Convallarin ..	15, 342; 16, 219
„ metameric ..	1, 110	Convolvulates ..	16, 157
„ physiological relations of	1, 96	Convolvulic acid ..	16, 156
„ polymeric ..	1, 109	Convolvulin	15, 342; 16, 154
„ refractive powers of ..	1, 94	Convolvulinol ..	16, 153
„ relations of, to heat ..	1, 93	Convolvulinolic acid ..	16, 152
„ relations of, to light ..	1, 94	Convolvulin-sugar ..	15, 343
„ state of aggregation of ..	1, 86	<i>Convolvulus scoparius</i> , oil of	14, 363
„ transparency of ..	1, 94	Copahulene, hydrochlorate ..	14, 288
„ volatility of ..	1, 93	Copaiba balsam	17, 327
Composition, colour-makers' ..	5, 88	„ oil	14, 286
Compressibility of liquids ..	1, 257	Copaivic acid ..	17, 326
Compression, heat developed by ..	1, 300	Copal ..	17, 405
Comptonite ..	3, 433	Copalche bark, bitter alkaloid from ..	17, 314
Conchicine (of Hesse) ..	17, 610	„ bark, bitter principle of ..	18, 230
Concholin ..	18, 371	Copalin ..	17, 436
Conchoidal Augite ..	3, 429	Copper ..	5, 398
Condensation, its influence on chemical combination	1, 37, 86	„ Amalgam of ..	6, 131
Condenser, electrical ..	1, 318	„ Amidobenzoate ..	12, 146
Condensing apparatus ..	1, 288	„ Ammonio-cobaltidcyanide ..	8, 11
Conducting power of bodies for electricity of small tension, methods of determining	1, 313	„ Ammonio-dibromide ..	5, 452
Conduction of heat ..	1, 221	„ Ammonio-dichloride	5, 453
Conductors of electricity ..	1, 310	„ Ammonio-diiodide ..	5, 450
„ of electricity, bipolar ..	1, 462	„ Ammonio-ferrocyanide ..	8, 9
„ and Insulators, electric, difference between ...	1, 313	„ Ammonio-maleate ..	8, 159
„ polar, of voltaic battery ..	1, 431	„ Ammonio-protiodide ..	5, 451
Conessine ..	17, 594	„ Ammonio-protobromide ..	5, 452
Confervæ, phosphorescence of ..	1, 189	„ Ammonio-protochloride ..	5, 453
Conglutin	18, 434	„ Antimonide ..	5, 474
Conhydrine	13, 169	„ Argentocyanide?	8, 33
Conine	13, 159	„ Arsenide	5, 470
Conine, salts of ..	13, 165—167	„ black oxide of ..	5, 406
<i>Conium maculatum</i> , ferment-oil of ..	14, 405	„ blue or indigo	5, 420
Connective tissue, preparation of mucin from	18, 341	„ Borofluoride	5, 443
Conring ..	1, 4	„ Bromides	5, 435
Constant of primary Nuclei	7, 23	„ Carbide	5, 414
Constitution of atoms	1, 146	„ Carbosulphide?	5, 430
Contact, influence of, on chemical combination ..	1, 36	„ Chlorides ..	5, 438
		„ Cobaltidcyanide	8, 10
		„ -compounds ..	5, 402
		„ -compound of Allantoin ..	10, 263
		„ -compound of Alanine ..	9, 437
		„ -compound of Salhydramide ..	12, 347
		„ -compound of Santonin ..	16, 256
		„ -compound of Veratrin ..	16, 59
		„ Cuprocyanide	8, 10
		„ Dibromide	5, 435

Copper	Dichloride	.. ..	5, 438	of oxygen and hydro-		
"	Dicyanide	.. .	8, 1	gen	....	2, 52
"	Diffuoride	.. .	5, 442	Copper rust	....	5, 414
"	Dimodide	.. .	5, 433	" Salts, <i>see</i> Cupric and		
"	Dioxide	.. .	5, 403	" Cuprous Salts.		
"	Diselenide	.. .	5, 432	" " solubility of, in		
"	Disulphide	.. .	5, 422	alcohol	..	8, 271
"	Disulphide of, with Cupric			" Selenides	..	5, 432
"	Oxyxanthate	.. .	8, 464	" Seleniocyanide	....	8, 124
"	Fluorides	.. .	5, 442	" Silicide	....	5, 464
"	with fluxes	.. .	5, 461	" Sulphides	..	5, 422
"	grey	.. .	5, 492	" Sulphomolybdate	..	5, 467
"	history of	.. .	5, 397	" Sulphotellurite	..	5, 477
"	Hydride ?	.. .	5, 413	" Sulphotungstate	..	5, 466
"	Iodides	.. .	5, 433	" Telluride	.. .	5, 477
"	Mellonide	.. .	9, 394	" Thiocyanide	..	8, 115
"	memoirs, &c., relating to	.. .	5, 397	" two-thirds Cyanide	..	8, 1
"	Mercaptide	.. .	8, 345	" and Aluminum, fluoride		
"	Nitride	.. .	5, 444	of	.. .	5, 464
"	Nitropotasside	.. .	8, 134	" and Ammonium, dichlo-		
"	Osmide	.. .	6, 422	ride of	.. .	5, 453
"	Oxides	.. .	5, 402	" and Ammonium, ful-		
"	Pentasulphide	.. .	5, 422	minate of	.. .	9, 300
"	Peroxide ?	.. .	5, 413	" and Ammonium, proto-		
"	Phosphide	.. .	5, 415	chloride of	.. .	5, 454
"	plates, electrotype copies			" and Ammonium, styph-		
"	of engraved	.. .	1, 506	nate of	.. .	11, 235
"	Platinocyanide	8, 55 ; 10,	509	" and Barium, alloy of ?	.. .	5, 462
"	" compound			" " salicylate of	12,	254
"	of with ammonia	.. .	8, 56	" " sulphide of	5,	463
"	Platino-platinidcyanide	.. .	8, 56	" " dichloride		
"	precipitation of, by hy-			of	.. .	5, 463
"	pophosphorous acid	.. .	5, 409	" " sulphocam-		
"	precipitation of, by iron			phorate	13,	380
"		.. .	5, 399, 49	" and Bismuth, alloy of	.. .	5, 477
"	precipitation of, by			" " sulphide of	.. .	5, 477
"	phosphorus	.. .	5, 408	" and Cadmium, alloy of	.. .	5, 481
"	precipitation of, by			" and Calcium, sulphide of	.. .	5, 463
"	phosphuretted hydro-			" and Copper-slag, vana-		
"	gen	.. .	5, 410	dium in	.. .	4, 81
"	precipitation of, by			" and Gold, alloy of	.. .	6, 246
"	reducing agents	.. .	5, 406	" " cyanide of ?	.. .	8, 42
"	precipitation of, by			" Gold, and Silver, alloy of	.. .	6, 251
"	zinc, tin, and other			" " Zinc, alloy of	.. .	6, 246
"	metals	.. .	5, 409	" and Iridium, alloy of	.. .	6, 392
"	preparation of	.. .	5, 398	" and Iron, alloy of	.. .	5, 489
"	properties of	.. .	5, 400	" " carbide of	.. .	5, 489
"	Protobromide	....	5, 436	" " sulphantimo-		
"	Protochloride	.. .	5, 438	mate of	.. .	5, 492
"	Protochloride, its use			" " sulphide of	.. .	5, 489
"	for steeping wood	....	7, 113	" " sulphostannate		
"	Protocyanide	.. .	8, 3	of	.. .	5, 496
"	Protioxide	....	5, 406	" Iron and Zinc, alloy of	.. .	5, 496
"	Protoselenide	.. .	5, 432	" and Lead, alloys of	.. .	5, 484
"	Protosulphide	....	5, 422	" " antimonide of	.. .	5, 487
"	purple	.. .	5, 489	" " selenide of	.. .	5, 485
"	reactions of	.. .	5, 405, 408	" " sulphide of	.. .	5, 485
"	reduced, effect of in in-			" Lead, and Antimony,		
"	ducing the combination			sulphide of	.. .	5, 487

Copper	Lead and Bisnuth, sulphide of ..	5, 488	Copper-nickel	... ..	5, 389
"	Lead, Tin, and Zinc, alloy of .	5, 488	"	" preparation of nickel from ..	5, 355
"	and Magnesium, sulphide of .	5, 463	"	"-ore, azure or blue ..	5, 415
"	and Manganese, alloy of	5, 468	"	" red ..	5, 403
"	and Mercury, chloride of	6, 131	"	"-ores, occurrence of arsenic in	4, 249
"	and Molybdenum, alloy of .	5, 467	"	"-pyrites	5, 491
"	and Nickel, alloy of	5, 497	Copulated Acids and Salts	..	7, 221
"	" cyanide of	3, 11	"	or Conjugated compounds .	7, 213
"	Nickel, and Zinc, alloy	5, 497	Coquimbite	. .	5, 245
"	and Nitrogen, boride of?	5, 448	Cordierite	. .	3, 434
"	and Paladium, alloy of	6, 357	Coriamyrtin .	17, 368; 18, 149	
"	and Platinum, alloy of	6, 337	Coriander oil .	..	14, 386
"	Platinum-deposits on ..	6, 275	Cork, petrified .	. .	3, 407
"	Platinum and Zinc, alloy	6, 638	" -resin ...	..	13, 204
"	and Potassium, alloy of	5, 456	" -wax .	..	18, 159
"	" antimonide of	5, 476	Corn Fusel-oil .	.	11, 9
"	" dichloride of	5, 460	" -cockle seeds, preparation of saponin from	....	16, 86
"	" dimodide of	5, 460	Corneous Lead-ore .	....	5, 148
"	" ferrocyanide of	3, 10	Cornin, or Cornic Acid .	.	18, 221
"	" fluoride of	5, 461	<i>Cornus florida</i> , resin from	..	18, 222
"	" fulminate of	9, 300	" <i>mascula</i> , resin of the bark of .	.	17, 447
"	" sulphide of	5, 458	<i>Corpora fixa</i> .	.	1, 257
"	Potassium, and Mercury, chloride of .	6, 131	" <i>fusibilia</i> ..	.	1, 253
"	and Potassium, protochloride of	5, 460	" <i>refractaria</i> .	.	1, 253
"	" salicylate of	12, 245	" <i>volatilia</i> ....	....	1, 257
"	" styphnate of	11, 235	Corpse-fat .	. .	16, 390
"	and Rhodium, alloy of	6, 368	Corpses, preservation of	..	7, 117
"	and Silver, alloy of .	6, 197	<i>Corpus luteum</i> of the Cow, preparation of hæmolutein from .	. .	18,
"	" selenide of .	6, 197	" <i>mercurio aptum</i> ....	....	8, 340
"	" sulphide of .	6, 197	Corpuscular theory	..	1, 154
"	and Sodium, dichloride of	5, 462	Corrosive sublimate	.	6, 53
"	and Silver, compounds of orcen with	12, 362	"	use of, for steeping wood .	7, 113
"	and Strychnine, sulphate of ..	17, 496	Cortepinitannic acid	.	15, 489
"	and Tin, alloys of	5, 481	"	wax obtained in the preparation of	18, 16
"	and Titanium, hydrated fluoride of .	5, 466	<i>Cortex Esenbeckia</i> , bitter substances obtained from	... ..	18, 225
"	and Tungsten, alloy of	5, 466	Corundum .	..	3, 305
"	and Zinc, alloys of	5, 477	Corydahne ....	....	17, 607
Copperas	..	5, 237	<i>Corylus Avellana</i> , oil from the shelled seeds of	.	17, 97
Copper-bismuth-glance..	...	5, 477	Cotarnamic acid ..	...	16, 134
" -bloom	...	5, 405	Cotarnic acid .	..	16, 134
" -glance	5, 420; 5, 422		Cotarnine .	....	16, 130
"	argentiferous ..	6, 197	" hydrated ..	...	16, 132
"	prismaticoid ..	5, 488	" salts ..	...	16, 132
Coppering by galvanic precipitation	... ..	1, 501	Cotton, action of chlorine and hypochlorites on	..	16, 134
Copper-mica	... ..	5, 399; 5, 471			

Cotton, action of strong nitric acid on	15, 135	<i>Crocus Martis, adstringens</i>	....	5, 195
„ action of sulphuric acid on ..	15, 136	„ <i>aperitivus</i>	....	5, 196
„ mercensed	15, 141	„ <i>Zweiflers</i>	....	5, 195
„ use of mordants in the dyeing of ..	15, 141	<i>Crocus metallorum</i>	..	4, 359
„ -seed, blue	16, 459	Crocydolite	.	5, 281
„ -seed oil	17, 94	Cronstedtite	..	5, 386
Coumarin	13, 321	Cross-stone	..	3, 446
<i>Couronne des tasses</i>	1, 425	Croton oil	....	17, 95
Cooling in vacuo	1, 214	Crotonol	....	13, 377
Cow-dung, putrefaction of	7, 105	Crown glass	...	3, 380
Cow-tree, resins from the milk of the	17, 351	Crude or empirical formulæ of organic compounds	....	7, 8
„ -tree, wax from the milk of	18, 160	Crustacea, phosphorescence of	..	1, 182
Crabs, colouring matters of	18, 420	Cryolite	....	3, 326
Cracks in glass, diffusion of gases through	1, 23	Cryophorus	....	1, 273
Cratægine	18, 222	Cryptidine	..	14, 518
Cratinine	10, 255	Cryptolite	..	3, 266
„ base obtained from	11, 525	Cryptopine	..	18, 193
„ with Chloride of Zinc	10, 259	Crystal glass	..	3, 380
„ Hydrochlorate	10, 258	Crystallin	..	18, 330
„ Sulphate	10, 258	„ syn. with Aniline	....	11, 426
Craw-fish, occurrence of gum in	15, 196	Crystalline and amorphous states, substances existing in both	..	1, 104
Cream of Lime	3, 183	„ compound formed in sulphuric acid chambers	..	2, 451
„ Tartar	10, 276	„ form of organic compounds, retention of, when hydrogen is replaced by chlorine	7, 46	
„ Tartar, compound of, with Tartar-emetic	10, 305	„ forms of compounds	1, 87	
Creatine	10, 249	„ polarity of bisnuth and other bodies	1, 517	
„ Alkali produced by oxidation of	9, 378	Crystallisable substances, method of purifying	1, 14	
„ Hydrate	10, 254	Crystallisation	1, 8—15	
„ Hydrochlorate	10, 254	„ accompanied by heat	1, 9, 15	
„ Nitrate	10, 254	„ accompanied by light	1, 15	
„ preparation of cratinine from	10, 287	„ effected by access of air	1, 8	
„ Sulphate	10, 254	„ effected by affinity of another body for the solvent	1, 12	
Creatinine syn. with Cratinine	10, 255	„ effected by agitation	1, 9	
<i>Cremor tartari</i>	10, 276	„ effected by change of temperature	1, 8	
<i>Cremor tartari solubilis</i>	10, 278, 283	„ effected by chemical combination	1, 8, 12	
Crenic acid	15, 158; 17, 466	„ effected by introduction of a solid body	1, 9	
„ (Mulder's)	17, 473	„ effected by solution	1, 8	
Creosote	11, 139			
„ aqueous	11, 150			
„ from wood	15, 161			
Crepin	18, 222			
Cress oil	10, 56			
„ -seed oil	16, 315			
Cresyl hydrate	12, 229			
Cresylic alcohol	12, 229			
Crocetin	15, 343; 16, 507			
Crocine	15, 343			
Crocoisite	5, 170			
Croconates, metallic	10, 390—395			
Croconic acid	10, 388			
<i>Crocus autumnalis</i>	4, 359			

- Crystallisation effected by sublimation . . . 1, 8
- „ influence of adhesion on . . . 1, 13
- „ influence of foreign bodies on . . . 1, 17
- „ influence of a vacuum on . . . 1, 10
- „ instantaneous . . . 1, 9
- „ luminous appearances accompanying . . . 1, 206
- „ phenomena observed in . . . 1, 12
- „ supposed influence of magnetism on . . . 1, 514
- „ theory of spherical atoms in . . . 1, 147
- „ water of . . . 1, 64; 2, 63
- Crystallised bodies, conduction of heat in . . . 1, 222
- „ glass . . . 3, 384
- Crystallographical nomenclature . . . 1, 17
- Crystallography, systems of . . . 1, 15
- Crystals . . . 1, 8
- „ axes of . . . 1, 15
- „ chemical atoms of . . . 1, 147
- „ cleavage-planes of . . . 1, 18, 147
- „ decrepitation of . . . 1, 14
- „ dimorphous . . . 1, 18, 98
- „ electricity of . . . 1, 319
- „ expansion of, by heat . . . 1, 233
- „ external forms of . . . 1, 15
- „ figures of . . . Plates I and II
- „ internal structure of . . . 1, 18
- „ isomorphous . . . 1, 18, 87
- „ modifications of the forms of . . . 1, 12
- „ nuclei of . . . 1, 19
- „ peculiarities in formation of . . . 1, 12
- „ primary and secondary forms of . . . 1, 19
- „ texture of . . . 1, 18
- „ trimorphous . . . 18, 100
- Cuba wax . . . 18, 160
- Cube-ole . . . 5, 306
- Cubebene . . . 18, 270
- Cubebin . . . 18, 273
- Cubebs, camphor of . . . 18, 271
- „ hydrated oil of . . . 18, 271
- „ oil of . . . 18, 272
- „ resins of . . . 17, 447
- Cubic Alum . . . 3, 323
- „ Nitre . . . 4, 117
- Cucumis Prophetarum*, preparation of prophetin from . . . 17, 365
- Cucurbita Pepo*, oil from the seeds of . . . 18, 315
- Cudbear, preparation of . . . 12, 361
- Culdlawan oil . . . 14, 364
- Cumanilide . . . 14, 177
- Cumaramine . . . 13, 337
- Cumaric acid . . . 13, 317
- Cumarin . . . 13, 321
- Cumene . . . 13, 338
- Cumeugenyl . . . 14, 213
- Cumidine . . . 13, 348
- Cuminamic acid, *see* Amidocuminic acid
- Cuminamide . . . 14, 173
- Cuminate, Acetic . . . 14, 156
- „ Benzoic . . . 14, 157
- „ of Ethyl . . . 14, 155
- „ Eugenyl . . . 14, 213
- „ Methyl-salicyl . . . 14, 159
- „ Phenyl . . . 14, 157
- Cuminates, metallic . . . 14, 150
- Cumimic acid . . . 14, 148
- „ Alcohol . . . 14, 143
- „ Aldehyde . . . 14, 144
- „ Anhydride . . . 14, 159
- „ Cuminate . . . 14, 159
- „ Ether . . . 14, 155
- Cumino-eugenic Anhydride . . . 14, 213
- Cuminol . . . 14, 144
- „ compounds of, with Alkaline Bisulphites . . . 14, 147
- „ -potassium . . . 14, 147
- Cuminuric acid . . . 14, 160
- Cumoglycol, Acetate . . . 14, 153
- „ Benzoate . . . 14, 154
- Cumol . . . 13, 338
- Cumonitrile . . . 14, 180
- Cumosalicyl . . . 14, 158
- Cumyl . . . 14, 154
- „ Chloride . . . 14, 165
- „ Hydride . . . 14, 144
- „ Cenantylate . . . 14, 159
- Cumylamine . . . 19, 508
- Cumyl-benzoyl-sulphophenylamide . . . 14, 179
- Cumylene, Acetate . . . 14, 153
- „ Benzoate . . . 14, 154
- Cumyl-cenantylal . . . 14, 159
- Cumyl-phenyl . . . 14, 157
- Cumyl-piperide . . . 15, 18
- Cumyl-salicylamide . . . 14, 179
- „ -sulphophenylamide . . . 14, 177
- „ -sulphophenyl-argentamide . . . 14, 178
- „ -sulphophenyl-argent-hydrobiamide . . . 14, 178
- Cuoxam . . . 15, 142
- Cup-apparatus (galvanic) . . . 1, 425
- Cupellation of argentiferous lead . . . 6, 133

Cuprammonia solution, preparation of ..	15, 142	use of, for steeping wood ..	7, 113
Cuprammonium, Isatide of ..	13, 53	Cupric Chlorobenzoate	12, 114
„ salts, solubility of cellulose in ..	15, 142	„ Chloroplatinate ..	6, 337
Cupranilium, Sulphate of ..	11, 260	„ Chromate ..	5, 467
Cupric Acetates ..	8, 323-326	„ Chrysammate ..	12, 6
„ Acetate with Mercuric Chloride ..	8, 332	„ Cinnamate ..	13, 277
„ Aceto-arseniate ..	8, 329	„ Citrate ..	11, 459
„ Acid? ..	5, 413	„ Comenate ..	11, 388
„ Aconitate ..	11, 406	„ Convolvulinate ..	16, 153
„ Albuminate ..	13, 306	„ Crenate ..	17, 468
„ Aldehyde ..	14, 489	„ Croconate ..	10, 394
„ Alloxanate ..	10, 168	„ Cyanide ..	8, 3
„ Althionate ..	8, 432	„ Cyanurate ..	9, 455
„ Albuminate ..	5, 464	„ Ethionate ..	8, 434
„ Anisate ..	13, 585	„ Ethylosulphite ..	8, 410
„ Antimoniate ..	5, 475	„ Ethylthionate ..	12, 515
„ Antimonite ..	5, 475	„ Eugenate ..	14, 206
„ Ammono-sulphate ..	5, 448	„ Euxanthate ..	17, 535
„ Amylophosphate ..	11, 51	„ Ferriocyanide ..	8, 8
„ Amylosulphate	11, 60	„ Ferrocyanide	8, 8
„ Amylosulphite	11, 53	„ Formiate ..	7, 251
„ Apocrenate ..	17, 470	„ Fulminate ..	9, 300
„ Arabate ..	15, 204	„ Fumarate ..	10, 30
„ Arachidate ..	17, 372	„ Gaedinate ..	16, 320
„ Arseniate ..	5, 471	„ Gallate ..	12, 410
„ Arsenite ..	5, 470	„ Gambodate ..	17, 419
„ Aspartate ..	10, 238	„ Hippurate ..	12, 80
„ Azelaate ..	17, 81	„ Hydrobromate ..	5, 436
„ Azophosphate ..	5, 456	„ Hydrofluante ..	5, 443
„ Benzoate ..	12, 43	„ Hydrothiosulphocyanide ..	8, 101
„ Benzoglycolate ..	12, 68	„ Hypochlorite ..	5, 442
„ Bibromsate ..	13, 71	„ Hypophosphate ..	5, 417
„ Bichlorisatate ..	13, 81	„ Hyposulphate ..	5, 424
„ Diethylphosphate ..	8, 402	„ Hyposulphophosphate ..	5, 431
„ Dimethylphosphate ..	12, 483	„ Inosate ..	11, 120
„ Dinitroethylate ..	12, 559	„ Insolinate ..	13, 320
„ Bisulphomethylate ..	12, 485	„ Iodate ..	5, 434
„ Borate	5, 415	„ Isethonate ..	8, 431
„ Bromacetate ..	12, 533	„ Isobiglycolethyleneate ..	15, 237
„ Bromate ..	5, 437	„ Isotartrate ..	10, 333
„ Bromide ..	5, 436	„ Itaconate ..	10, 427
„ Butyrate ..	10, 87	„ Jalapinate ..	16, 403
„ Cacodylate ..	9, 330	„ Kinamate ..	16, 232
„ Caffetannate ..	15, 509	„ Kinovate ..	13, 25
„ Camphorate ..	14, 461	„ Lactate ..	11, 493
„ Caprate ..	14, 488	„ Lecanorate ..	12, 379
„ Carbonate ..	5, 414	„ Leucate ..	15, 62
„ Carbonate with Ammonia ..	5, 448	„ Malate ..	10, 224
„ Chelidonate ..	12, 420	„ Maleate	8, 159
„ Chlorate ..	5, 442	„ Maleate with Sulphate of Ammonia ..	10, 225
„ Chloride ..	5, 438	„ Mandelate ..	12, 59
„ Chloride, compound of, with Urea ..	13, 404	„ Mannitate ..	15, 383
„ Chloride and Sulphate,		„ Meconates ..	12, 430
		„ Mellitate ..	10, 10
		„ Mesaconate ..	10, 432
		„ Metaphosphate ..	5, 420
		„ Methylbithionate ..	12, 489

Cupric Molybdate	5, 467	Cupric Pimelate	12, 465
„ Mono-hydrochlorate	5, 439	„ Piperate	15, 10
„ Mucate	11, 508	„ Pipitzahoate	16, 265
„ Myristate	16, 213	„ Propionate	9, 407; 10, 555
„ Nitrate	5, 446	„ Pyrogallate	11, 402
„ Nitrite	5, 446	„ Pyromecenate	10, 443
„ Nitrobenzoate	12, 127	„ Pyromucate	10, 385
„ Nitrococussate	13, 27	„ Pyrophosphate	5, 419
„ Nitrofrangulate	16, 79	„ Pyrotartiate	11, 97
„ Nitrohippuate	12, 131	„ Quadrosilicate	5, 465
„ Nitrosalicylate	12, 310	„ Racemate	10, 359
„ Nitrotoluylate	13, 23	„ Rhodizonate	10, 403
„ Oenanthane	12, 456	„ Ricinelaideate	17, 137
„ Oenanthylate	12, 453	„ Saccharates	11, 522
„ Oleate	17, 73	„ Salicylamate	12, 322
„ Oxalate	9, 164	„ Salicylate	12, 253
„ „ with Ammonia	9, 165	„ Salicylite	12, 243
„ Oxide	5, 406	„ Salts, general characters	
„ „ with Ammonia	5, 447	„ of	5, 408
„ „ with Asparagine	10, 247	„ Sarcocactates	11, 500
„ „ with Baryta ?	5, 463	„ Sebate	14, 498
„ „ compounds of, with		„ Selenate	5, 433
„ „ cane-sugar	15, 290	„ Selenide	5, 432
„ „ with Cuprous Chloride	5, 438	„ Selenite	5, 433
„ „ Hydrated	5, 407	„ Silicates	5, 464
„ „ with Kinovin	18, 29	„ Silcofluoride	5, 465
„ „ with Lead-oxide	5, 485	„ Stannate	5, 484
„ „ and Lead-oxide, hy-		„ Stearate	17, 112
„ „ posulphite of ?	5, 485	„ Styphnate	11, 234
„ „ with Leucine	11, 432	„ Suberate	13, 211
„ „ with Lime	5, 463	„ Succinate	10, 128
„ „ with Peroxide of		„ Suerate, colloidal	15, 539
„ „ Manganese	5, 468	„ Sulphamilate	11, 298
„ „ with Soda	5, 461	„ Sulphantimoniate	5, 476
„ „ solution of, in vola-		„ Sulpharsenate	5, 474
„ „ tile oils	7, 168	„ Sulpharsenite	5, 474
„ „ use of, in ultimate		„ Sulphate	5, 425
„ „ analysis of organic		„ „ with Am-	
„ „ compounds	7, 86	„ line	11, 260
„ „ Oxybromide	5, 436	„ Sulphate, with Fluoride	
„ „ Oxychloride	5, 440	„ of Calcium	5, 463
„ „ Oxyfluoride, hydrated	5, 443	„ Sulphite	5, 424
„ „ Oxyxanthate, and its com-		„ Sulphobenzolate	11, 156
„ „ pound with disulphide		„ Sulphocamphorate	13, 380
„ „ of copper	8, 464	„ Sulphocarbonate	5, 431
„ „ Palmitate	16, 363	„ Sulphocinnamate	13, 280
„ „ Pectate	16, 408	„ Sulphocyanide	8, 92
„ „ Pelargonate	13, 371	„ „ with Am-	
„ „ Perchlorate	5, 442	„ monia	8, 94
„ „ Periodate	5, 434	„ Sulphocymenate	14, 191
„ „ Permanganate	5, 468	„ Sulphophosphate	5, 432
„ „ Persulphomolybdate	4, 467	„ Sulphosalicylate	12, 280
„ „ Phloretate	13, 312	„ Sulphosomethylate	7, 301
„ „ Phosphate	5, 418	„ Sulphovinate	8, 427
„ „ Phosphate	5, 417	„ Sylvate	17, 322
„ „ Phytsetoleate	16, 319	„ Tannate	15, 470
„ „ Picramate	11, 245	„ Tartrate	10, 320
„ „ Picrate	11, 226	„ Tartrovinat	10, 342
		„ Tellurate	5, 477

Cupric Tellurite	5, 477	Cuproso-cupric Cyanides, Ammoniacal	10, 505; 12, 497
" Terchlorosulphosomethy- late	7, 353	" -cupric Hydrochlorate ..	5, 438
" Thionurate	10, 185	" -cupric Sulphocyanide ..	8, 92
" Toluy late	13, 9	Cuprosoferrocyanide of Potassium	13, 409
" Tungstate	5, 466	Cuproso-mercurous Hyposulphite	6, 131
" Usnate	17, 51	" -potassic Chloride	5, 460
" Valerate	11, 36	" -potassic Hyposulphite....	5, 458
" Vanadate	4, 81, 5, 467	" -potassic Iodide	5, 460
" Zirconate	5, 464	" -potassic Sulphite	5, 459
Cuprico-ammonic Acetate ..	8, 326	" -sodic Chloride	5, 462
" Chloride	5, 454	" -sodic Hyposulphite	5, 461
" Chromate	5, 468	Cupro-sulphate of Ammonia ..	5, 449
" Sulphates	5, 450	Cuprous Acetate	8, 323
Cuprico-calcic Acetate	8, 328	" Bromide	5, 435
" -cobaltous Sulphate	5, 496	" Chloride	5, 438
" -ferrous Sulphate	5, 492	" Chloride with Cupric Oxide	5, 438
" -magnesian Sulphate	5, 463	" Chloride with Xantha- mide	9, 277—282
" -magnesian-ammonic Sul- phate	5, 463	" Cyanide	8, 1
" -niccolic Sulphate	5, 497	" Ferridcyanide	8, 8
" -niccolo-potassic Sul- phate	5, 497	" Ferrocyanide	8, 8
" -plumbic Chromate	5, 486	" Fluoride	5, 442
" -potassic Carbonate	5, 458	" Hydrobromate	5, 436
" -potassic Chloride	5, 460	" Hydrochlorate, acid	5, 439
" -potassic Selenate	5, 460	" Hyposulphite	5, 423
" -potassic Sulphate	5, 439	" Hyposulphophosphite ...	5, 431
" -sodic Carbonate	5, 461	" Iodide	5, 433
" -sodic Sulphate	5, 462	" Iodide with Xantha- mide	9, 276—277
" -zincic Carbonate	5, 480	" Manganese	4, 204; 5, 468
" -zinc-potassic Sulphate	5, 481	" Naphthonate	14, 114
Cupro-acetate of Picoline ..	11, 271	" Oxalate	9, 164
" -bromate of Ammonia ..	5, 452	" Oxide	5, 403
Cuprocyanide of Ammonium ..	8, 3	" Oxide with Ammonia ..	5, 447
" Barium	8, 7	" Oxide with Antimonic Oxide	5, 474
" Bismuth	8, 7	" Oxide with Glass Fluxes	5, 467
" Cadmium	8, 7	" Oxide hydrated	5, 405
" Copper	8, 10	" Oxide with Lead-oxide	5, 484
" Iron	8, 7	" Oxide with Potash	10, 456
" Lead	8, 7	" Racemate	10, 359
" Manganese	8, 7	" Salts, formation and general characters of	5, 405
" Nickel	8, 11	" Selenide	5, 432
" Potassium	8, 4	" Selenite	5, 432
" Silver	8, 33	" Silicofluoride	5, 465
" Sodium	8, 7	" Stannate	5, 483
" Tin	8, 7	" Sulphantimonite	5, 476
" Uranium	8, 7	" Sulphite	5, 423
" Zinc	8, 7	" Sulphocacodylate	9, 338
Cupro-fumate of Ammonia	10, 30	" Sulphocyanide	8, 90
Cupro-hyposulphate of Ammo- nia	5, 448	" Sulphocyanide with Ammonia	8, 93
" -iodate of Ammonia	5, 452	" Sulphocyanide with Xanthamide	9, 282
Cupro-mellitate of Ammonia	10, 11	" Sulphophosphite	5, 431
Cupro-nitrate of Ammonia ..	5, 455	" Viridate	15, 511
Cuproso-ammonic Chloride ..	5, 453		
" -barytic Chloride	5, 463		
" -cupric Chloride	5, 438		
" -cupric Cyanide	8, 1		

Cuprous Xanthate	8, 459	of, with Cyanide of	
Cuprum	5, 397	Nickel	7, 499
Curarine	17, 592	Cyanide of Benzoyl . .	12, 52; 12, 118
Curcuma, oil . . .	14, 367	" Butyl	11, 121
" Zerumbet, oil of ..	14, 367	" Cacodyl	9, 849
Curcumin . . .	16, 518	" Cadmium .. .	7, 426; 9, 507
Curic acid . . .	18, 19	" Cadmium, compounds	
Currants, colouring matter of	16, 529	of, with Cyanide of	
Curves, magnetic	1, 168	Nickel	7, 499
Cusparin . . .	18, 222	" of Cadmium and Lead ..	7, 428
Cutin	15, 145	" of Cadmium and Potas-	
Cyamelide P	9, 462	sium . . .	7, 426
Cyamelic acid	9, 382	" of Calcium .. .	7, 417; 12, 426
Cyanamide . . .	8, 145	" of Calcium, compounds	
Cyanate of Allyl . . .	13, 544	of, with Cyanide of	
Cyanate of Ammonia ..	8, 65	Nickel	7, 499
Cyanate of Ammonia, prepara-		" of Cerium	7, 417
tion of Urea from ..	7, 365	" of Cetyl	16, 374
" Aniline, abnormal .	11, 303	" Chromic	7, 419
" Baryta	8, 67	" Chromous	7, 419
" Cupric	8, 68	" Cannamyl	13, 299
" of Ethyl	8, 486	" Cupric	8, 3
" Ferrous	8, 68	" Cuproso-cupric	8, 1
" of Lead	8, 68	" Cuprous	8, 1
" Lime	8, 68	" of Ethyl	8, 486
" Mercurous	8, 68	" of Ethyl, compound of,	
" of Methyl	8, 488	with Chloride of Car-	
" Naphthyl	14, 118	bonyl	13, 457
" Potash	8, 65	" of Ethyl, compounds of,	
" Silver	8, 68	with metallic Chlo-	
" Soda	8, 67	rides	13, 457
Cyanates, metallic . .	8, 64—70	" of Ethyl and Silver ..	13, 458
Cyanethine	13, 236	" Ferric	7, 448
Cyanetholine	13, 566	" Ferrous	7, 432
Cyanethylamide	9, 293	" of Gold and Calcium ..	8, 42
Cyanic acid	8, 61	" of Gold and Copper P..	8, 42
" aqueous	8, 63	" of Iron, compounds of	7, 429
" with Bitter Almond		" of Iron, compounds of,	
oil	12, 28	with Cyanide of Nickel	7, 499
" Hydrochlorate . .	8, 63	" of Lead	7, 427
" solubility of, in al-		" of Lead, compounds of,	
cohol	8, 273	with Cyanide of Nickel	7, 499
Cyanic Amides	9, 293	" of Magnesium .. .	7, 417; 12, 495
" Ether	8, 487	" Manganic	7, 421
" Ether, hydrochlorate of	13, 563	" Manganoso-manganic ..	7, 421
Cyanide of Ammonium. .	7, 410	" Manganous	7, 421
" Ammonium, forma-		" of Mercury	8, 11
tion of by action of		" of Mercury, compounds	
ammonia on carbon,		of	13, 409
carbonic oxide,		" of Mercury with Ace-	
or organic substan-		tate of Mercury	8, 332
ces at a red heat ..	7, 382	" of Mercury with Ace-	
" Amyl	11, 67	tate of Soda	8, 333
" Amyl, preparation of		" of Mercury with Am-	
Caproic acid from ..	11, 415	monia	8, 17
" Auric P	8, 36	" of Mercury with Bro-	
" Aurous	8, 34	mide of Barium	8, 22
" of Barium .. .	7, 417; 12, 495	" of Mercury with Bro-	
" Barium, compounds		mide of Calcium	8, 23

Cyanide of Mercury with Bromide of Potassium	8, 20	Cyanide of Mercury with Mercuric Nitrate	8, 17
" of Mercury with Bromide of Sodium	8, 21	" of Mercury with Nitrate of Silver	8, 33
" of Mercury with Bromide of Strontium	8, 22	" of Mercury and Nitro-harmine	16, 111
" of Mercury with Chloride of Ammonium	8, 17	" of Mercury and Potassium	8, 18
" of Mercury with Chloride of Barium	8, 22	" of Mercury with Sulphocyanide of Barium	8, 96
" of Mercury with Chloride of Calcium	8, 23	" of Mercury with Sulphocyanide of Calcium	8, 96
" of Mercury with Chloride of Cobalt	8, 26	" of Mercury with Sulphocyanide of Magnesium	8, 96
" of Mercury with Chloride of Magnesium	8, 23	" of Mercury with Sulphocyanide of Potassium	8, 96
" of Mercury with Chloride of Manganese	8, 24	" of Mercury with Strychnine	17, 500
" of Mercury with Chloride of Nickel	8, 26	" of Mercury and Zinc?	8, 24
" of Mercury with Chloride of Potassium	8, 20	" of Methyl	8, 60; 9, 294
" of Mercury with Chloride of Sodium	8, 21	" of Methyl, compounds of, with Metallic Chlorides	13, 412
" of Mercury with Chloride of Strontium	8, 22	" of Methyl and Mercury	13, 412
" of Mercury with Chloride of Zinc	8, 24	" of Nickel	7, 498
" of Mercury with Chromate of Potash	8, 23	" of Nickel and Ammonium	7, 498
" of Mercury with Ferrocyanide of Potassium	8, 25	" of Nickel and Cobalt	7, 500
" of Mercury with Formiate of Ammonia	8, 26	" of Nickel and Copper	8, 11
" of Mercury with Formate of Potash	8, 26	" of Nickel, compounds of, with Cyanide of Barium	7, 499
" of Mercury with Hydriodate and Hydrobromate of Cinchonine	17, 214	" of Nickel, compounds of, with Cyanide of Cadmium	7, 499
" of Mercury with Hydrochlorate of Berberine	17, 195	" of Nickel, compounds of, with Cyanide of Calcium	7, 499
" of Mercury with Hydrochlorate of Ethylamine	9, 62	" of Nickel, compounds of, with Cyanide of Iron	7, 499
" of Mercury with Hydrochlorate of Strychnine	17, 500	" of Nickel, compounds of, with Cyanide of Lead	7, 499
" of Mercury with Hypo-sulphite of Potash	8, 19	" of Nickel, compounds of, with Cyanide of Sodium	7, 499
" of Mercury with Iodide of Barium	8, 22	" of Nickel and Potassium	7, 498
" of Mercury with Iodide of Calcium	8, 23	" of Nitrogen?	8, 147
" of Mercury with Iodide of Potassium	8, 19	" of Phenyl	12, 161
" of Mercury with Iodide of Sodium	8, 21	" of Phosphorus	8, 147
" of Mercury with Iodide of Strontium	8, 22	" Platinoous	8, 43
" of Mercury and Lead?	8, 24	" of Platinum with Hydrocyanate of Quinine	17, 287
" of M...		" of Platosammonium	8, 45
		" of Potassium	7, 411

Cyanide of Potassium, formation of, by heating nitrogenous organic compounds with Potassium	7, 146	Cyanilide	11, 303
„ of Silver	8, 26	Cyaniline	11, 359
„ of Silver, compounds of	13, 410	Cyann	16, 522
„ of Sodium	7, 417	Cyanite	3, 412
„ of Sodium, compounds of, with Cyanide of Nickel	7, 499	Cyanobenzoyl, hydride of	12, 212
„ of Stibethyl	9, 85	Cyanobromopierin	12, 550
„ of Stibinethylethylum	13, 502	Cyanocumidine	13, 353
„ of Strontium	12, 495	Cyanodibromopierin	12, 551
„ of Titanium?	7, 418	Cyanodiethylamide	9, 293
„ of Uranic?	7, 421	Cyanoform?	8, 148
„ of Vanadium	7, 419	Cyanogen	7, 379
„ of Yttrium	7, 417	„ action of, on alkalis and alkaline carbonates	7, 387
„ of Zinc	7, 422	„ action of, on ammonia in aqueous solution	7, 380
„ of Zinc and Ammonium	7, 423	„ Ammonio-bromide	8, 139
„ of Zinc and Barium	7, 425	„ Ammonio-chloride	8, 145
„ of Zinc and Calcium	7, 425	„ Ammonio-iodide	8, 138
„ of Zinc and Lead	7, 428	„ and Antimony, chloride	8, 146
„ of Zinc and Potassium	7, 424	„ Bi-hydrosulphate	8, 118
„ of Zinc and Sodium	7, 425	„ Bromide	8, 139
Cyanides, Ammoniacal Cuprocupric	8, 3, 10, 505, 12, 497	„ Bromide, solid?	9, 462
Cyanides of Cobalt	7, 492	„ Chlorhydride	9, 463
„ of Copper	8, 1	„ Chloride, liquid	9, 466; 14, 565
Cyanides, Ferrous and Ferric, compounds of, with water	7, 434	„ Chloride, solid	9, 463
Cyanides of Gold	8, 34	„ Chloride, volatile	8, 140
„ of Iridium	8, 60	„ and Iron chloride of	8, 147
„ of Iron	7, 429	„ compounds, solubility of, in alcohol	8, 273
„ of Iron and Bismuth	7, 429	„ decomposition of aqueous	7, 386
„ of Iron and Cadmium	7, 490	„ decomposition of, by chlorine	7, 385
„ of Iron and Chromium	7, 487	„ decomposition of, by the electric spark	7, 385
„ of Iron and Manganese	7, 488	„ formation of 7, 379; 13, 407	
„ of Iron and Molybdenum	7, 487	„ formation of, by igniting nitrogenous organic compounds with a fixed alkali	7, 383
„ of Iron and Tin	7, 490	„ gas, absorption of, by volatile oils	7, 168
„ of Iron and Uranium	7, 488	„ Iodide	8, 135
„ of Iron and Vanadium	7, 487	„ literature and history of	7, 378
„ of Iron and Zinc	7, 489	„ maximum tension of, at different temperatures	1, 261
„ metallic	7, 404	„ preparation of	7, 384
„ metallic, classification of	7, 406	„ reaction of, with iron	7, 388
„ metallic, decomposition of, by hydriodic ethers	13, 408	„ Sesqui-hydrosulphate	8, 116
„ metallic, double, constitution and reactions of	7, 407	„ solid	11, 371
„ metallic, electrolysis of	1, 456	„ and Titanium, chloride of	8, 146
„ metallic, formation of	13, 386	Cyanomethylethylamide	9, 293
„ metallic, solubility of, in alcohol	8, 273		
„ of Palladium	8, 59		
„ of Platinum	8, 43		

Cyanoplatinate of Cinchonine ..	17, 214	Cyanuric acid	9, 449
Cyanotoluidine ..	12, 343	" ether ...	9, 459
Cyanurate of Ammonia ..	9, 452	Cyanurin	13, 36; 18, 407
" Amyl ...	11, 74	Cyanrylic acid ...	9, 461
" Baryta ...	9, 453	<i>Cycas</i> , preparation of starch from	
" Bicupric with Am-		the stems of various species	
moma	9, 455	of ..	15, 77
" of Cinchonine ...	17, 216	Cyclamin ..	15, 343; 16, 200
" Cupric ...	9, 455	Cyclamiretin ...	16, 200
" of Ethyl ..	9, 459; 13, 562	<i>Cyclcodaphne sebifera</i> , fat of	16, 390
" Lead ...	9, 454	Cymene or Cymol ...	14, 183
" Lime ..	9, 454	" (a) ..	14, 186
" Methyl ..	9, 458	" preparation of toluyllic	
" Morphine ..	16, 435	acid from ..	13, 8
" Potash	9, 452	Cymidine ..	14, 218
" Quinine ...	17, 289	Cymyl and Hydrogen, bromide	14, 214
" Silver ..	9, 456	" chloride	14, 215
" Silver with Am-		Cymylic alcohol ..	14, 143
moma ..	9, 457	Cynapine ..	18, 193
" Silver and Lead ..	9, 458	Cynene ..	14, 320
" Silver and Potas-		<i>Cyperus esculentus</i> , fatty oil	
sium ...	9, 458	from the roots of ...	17, 95
" Soda	9, 453	Cystine ..	9, 438
" Urea ?	9, 458	Cytisine	18, 193

D.

Dadyl, <i>see</i> Camphillene.		Daphnetin	17, 174
Daguerreotype ..	1, 178	Daphnin ..	15, 343; 17, 176
" pictures, electro-		Dark-grey Copper ..	5, 498
type copies of	1, 509	Dark-red Silver	6, 190
Daguerre's bromide of silver		Datiscetum ...	16, 262
paper ..	1, 176	Datiscan ...	15, 343, 16, 263
" chloride of silver		Datolite	3, 392
paper	1, 173	<i>Daucus Carota</i> , Carotin in ..	17, 14
Dahlia oil	14, 367	Davidsonite ..	3, 427
" tubers, preparation of		Davy's his electro-chemical re-	
Inulin from	15, 173	searches	1, 6, 458, 468-472
Dahlin ..	15, 112	Dead oil	11, 135
Dalleochine ..	17, 272	Deadly nightshade, colouring	
Dalton's law of the absorption		matter of the roots	
of mixed gases by		of ...	17, 1
liquids ...	2, 67	" nightshade, prepara-	
Dalton's atomic theory	1, 6, 146	tion of atropine from	16, 449
Damaluric acid ..	12, 436	" nightshade seed, oil	
Dammur-puti ..	17, 335	of	16, 314
Dammur-resin	17, 334	Decahexyl Chloride, <i>see</i> Bichlo-	
Dammaryl ...	17, 332	ronaphthalin.	
" semihydrate of ..	17, 333	" Perbromide, <i>see</i> Bi-	
Dandelion roots, preparation of		hydrobromate of Bi-	
inulin from ..	15, 114	bromobichloronaph-	
Daniell's constant battery ..	1, 421	thalin.	
" ether-hygrometer ..	1, 288	" Perchloride, <i>see</i> Bi-	
Daphnads, resin and acrid prin-		hydrochlorate of	
ciple of the ..	17, 178	Quadrichloronaph-	
<i>Daphne Mezereum</i> , oil of the		thalin	
seeds of	17, 95	Deca-iodide of Tetramethylum	10, 498

Decapentyl chloride, <i>see</i> Terchloronaphthalin.		Decomposition by electricity	1, 117
Decasulphide of Ethylene?	8, 355	" explosion result- ing from	1, 134
Decay	7, 91	" by fluidity and gaseity ...	1, 115
Decomposing affinities, table of	1, 140	" by heat ...	1, 137
" cell	1, 431	" induced by de- composing ac- tivity on another body	1, 115
" cell of a voltaic battery, develop- ment of heat in the	1, 496	" influence of the chemical nature of the electrodes on	1, 445
" cells, effect of number of, in the voltaic cur- rent, on the ten- sion and quan- tity of the current	1, 480	" influence of the intensity of the current on	1, 439
Decomposition by affinity	1, 117 to 133	" influence of the nature of the electrolyte on	1, 442
" by adhesion	1, 125	" influence of the relative volume of the electro- lyte on	1, 445
" anomalies ob- served in	1, 116	" influence of the surface of the electrodes on	1, 446
" by catalysis	1, 114—116	" influence of the temperature and compression of the electrotpe on	1, 444
" change of tem- perature re- sulting from	1, 133	" by light	1, 117
" chemical	1, 111—141	" quantity of the products of, in the voltaic cir- cuit	1, 479
" chemical, de- velopment or absorption of heat accompa- nying ...	1, 291	" precipitation re- sulting from	1, 135
" circumstances and results of	1, 135—137	" by predisposing affinity	1, 124
" by cohesion	1, 112—114, 123	" produced by the electric dis- charge	1, 430
" conditions of	1, 111—133	" products of	1, 111
" by contact	1, 115	" by reciprocal affinity	1, 125—133
" by double affinity	1, 119	" schemes of	1, 13 ; and Plate III
" in the dry way	1, 116	" by simple affi- nity	1, 117
" detonation re- sulting from	1, 134	" spontaneous, of organic com- pounds	7, 90
" educts of	1, 111	" by vital force	1, 115
" effected by heat or light, de- velopment of electricity by	1, 336	" in the wet way	1, 116
" by the electric current, de- gree of	1, 434	Decrepitation of Salts	1, 13
" by the electric current, direct and indirect	1, 434	Deer-fat	16, 390
" by the electric current, place of	1, 435	Deflagrator, Hare's	1, 409
" by the electric current, theory of	1, 432		

Deformation, Fuchs's theory of	1, 103	Dextroglucose combinations of, with Water	15, 323
Dekateteryl Chloride, <i>see</i> Quadri-chloronaphthalin.		" compounds of, with Baryta	15, 327
De la Rive's Hygrometer	1, 289	" compounds of, with Lime	15, 328
De la Rue's Battery	1, 425	" compounds of, with Sodium chloride	15, 325
Delphinin	11, 77	" decomposition of, by Acetic acid	15, 316
Delphinine	18, 21	" decomposition of, by Alkalies and Alkaline earths	15, 318
<i>Delphinium consolida</i> , preparation of acetic acid from	11, 403	" decomposition of, by Ammonia	15, 318
<i>Delphinus globiceps</i> , oil of	16, 323	" decomposition of, by Arsenic acid	15, 316
" <i>Phocæna</i> , oil of	16, 323	" decomposition of, by basic Nitrate of Bismuth	15, 319
De Luc's or Zamboni's pile	1, 426	" decomposition of, by Bromine	15, 315
Density, alteration caused in, by combination	1, 64	" decomposition of, by Chlorine	15, 316
" and atomic weight of compounds	1, 64—86	" decomposition of, by combustion in the air	15, 315
" and atomic weight of elements, relations between	1, 52—59	" decomposition of, by Cupric Salts	15, 320
" and atomic weight, Fihol's calculations respecting	1, 79	" decomposition of, by Ferrie Salts	15, 320
" and elasticity of gases, relation between	1, 257	" decomposition of, by heat	15, 315
Deoxidising rays of light	1, 180	" decomposition of, by heating with Bicarbonate of Potash and Iodine	15, 315
Dephlogisticated air	2, 20	" decomposition of, by heating with Lime	15, 319
" Muriatic acid	2, 289	" decomposition of, by heating with Organic acids	15, 317
Desiccation	1, 271	" decomposition of, by heating with Water	15, 315
Desmine	3, 443	" decomposition of, by Hydrochloric acid	15, 316
<i>Destillatio per descensum</i>	6, 2	" decomposition of, by Indigo	15, 321
Detonating gas	2, 45	" decomposition of, by Iodic acid	15, 316
" effect of admixture of various gases in retarding or preventing the combustion of, in contact with platinum, &c.	2, 53	" decomposition of, by lactic fermentation	15, 321
Detonating Platinum-deposit	8, 378	" decomposition of,	
" powder	8, 70		
Detonation resulting from decomposition	1, 134		
Detonations, electricity in	1, 341		
Deutoxide of Hydrogen	2, 73		
Deweylite	3, 396		
Dew-snail, colouring matter in the mantle of	18, 419		
<i>Dextrin</i>	15, 185		
" formation of dextroglucose from	15, 306		
Dextro-camphor	14, 339		
Dextroglucose	15, 304		
" alcoholic solution of	15, 329		
" aqueous solution of	15, 324		

	by Mercurous Nitrate	15, 321	Dextroglucose, formation of, from Glycogen	15, 308
Dextroglucose, decomposition of,	by Metallic oxides	15, 318	" formation of, from Lichenin	15, 308
" decomposition of,	by Nitrate of Baryta	15, 319	" formation of, from Maltose	15, 309
" decomposition of,	by Nitrate of Cobalt	15, 320	" formation of, from Mannite	15, 310
" decomposition of,	by Nitrate of Silver	15, 321	" formation of, from Oxalate of Ethyl	15, 310
" decomposition of,	by Nitric acid	15, 316	" formation of, from Starch	15, 306
" decomposition of,	by Oxalic acid	15, 316	" formation of, from Tunicin	15, 39
" decomposition of,	by oxidation in contact with spongy Platinum	15, 315	" transformation of Carbohydrates, with assumption of water	15, 306
" decomposition of,	by Oxide of Lead	15, 320	" Hydrates of	15, 323
" decomposition of,	by Phosphoric acid	15, 316	" Lead-compounds of	15, 328
" decomposition of,	by Platonic Chloride	15, 321	" memoirs relating to	15, 304
" decomposition of,	by Red Prussiate of Potash	15, 321	" optical rotatory power of	15, 314
" decomposition of,	by Stannic Chloride	15, 316	" physical properties of	15, 313
" decomposition of,	by Sulphuric acid	15, 316	" preparation of	15, 311
" decomposition of,	by Sulphuric acid and Ox-gall	15, 322	" sources of	15, 305
" decomposition of,	by vinous fermentation	15, 321	Dextrotartrate of Brucine	17, 583
" estimation of	formation of, from Cellulose	15, 309	" Cinchonidine	17, 227, 229
" formation of,	from Dextrin	15, 306	" Cinchonine	17, 217
" formation of,	from Dulcitol	15, 309	" Quinine	17, 291
" formation of, by decomposition of Glucosides		15, 309	" Strychnine	17, 503
" formation of,	from Glycerin	15, 310	Diabetic Sugar	15, 305
" formation of,	from Glucosan	15, 306	Diacetin	9, 496
			Diactochlorhydrin	13, 590
			Diadochite	5, 216
			Diallage	3, 403
			Dialurate of Ammonia	19, 157
			" Baryta	10, 158
			" Potash	10, 158
			Dialuric acid	10, 156
			Diamagnetics, definition of	1, 168
			Diamagnetism	1, 515
			Diamond, artificial	2, 84
			" conversion of, into coke at very high temperatures	2, 84
			" natural occurrence of	2, 82
			" properties of	2, 84
			Diamylaniline	11, 332
			Diana, syn. of Silver	6, 132
			Diarschin	17, 374
			Diarseniate of Ammonia	4, 287
			" Baryta	4, 300
			" Lime	4, 304

Diarsenate of Magnesia	...	4, 307	Diethylamine	..	11, 337
„ Potash	...	4, 291	Diethylene-diamine	..	13, 486
„ Soda	..	4, 297	Diethyl-urea	...	9, 291
„ Strontia	..	4, 302	Differences in compounds accord-		
„ Uramic Oxide	..	4, 313	ing to the grouping of their		
Diarsenide of Iron	..	5, 303	atoms	..	1, 98—111
„ Nickel	..	5, 389	Differential Thermometer	..	1, 226
Diarsenite of Baryta	..	4, 300	Diffusion	....	9, 448
„ Lime	...	4, 302	Diffusibility and density of gases,		
„ Potash	....	4, 291	relation between	..	1, 21
Diaspore	....	3, 306	Diffusion of gases through ani-		
Diastase	..	18, 455	mal membranes	..	1, 25
„ effect of, on starch		7, 99	„ gases through caout-		
Diathermanity	..	1, 214	chouc	...	1, 25
Diatomic Gases	..	1, 53	„ gases through cracks		
Dibenzanilide	...	12, 156	in glass	..	1, 23
Dibenzoyl-glucose	..	15, 335	„ gases through ear-		
Dibenzoylhumide	..	12, 190	thenware	..	1, 24
Dibenzoylsulphophenylamide	...	12, 159	„ gases through gyp-		
Dibromide of Copper		5, 435	sum	..	1, 24
„ Mercury		6, 42	„ gases, influence of		
Dibromochloride of Glyceryl	..	13, 578	density on	..	1, 21
Dibromonitracetonitrile		12, 550	„ gases and vapours	..	1, 20
Dibutyrin	..	10, 94			—26
Dicarbonate of Cupric Oxide	..	5, 414	„ gases, Dalton's		
„ Lead-oxide		5, 122	theory of	....	1, 22
„ Lime	..	3, 185	„ liquids	....	1, 27—30
Dicetyl-phenylamine		16, 384	„ -tube	..	1, 20
Dichlorhydrin	..	9, 499	Difluoride of Copper	..	5, 442
Dichloride of Carbon	..	8, 160	„ Mercury	..	6, 65
„ Copper		5, 438	Digestive salt	..	3, 56
„ Copper and Ammo-			Digitalatin	..	16, 328
num	..	5, 453	Digitalic acid	..	16, 339
„ Copper and Barium		5, 463	Digitalin	..	15, 343; 18, 223
„ Copper and Potas-			„ -fat	..	14, 530
sium	..	5, 460	„ of Homolle		16, 333
„ Copper and Sodium		5, 462	„ Labouddas	..	16, 335
„ Mercury	..	6, 45	„ Lancelot, A.		
„ Selenium	....	2, 345	„ Buchner, and		
„ Silver	...	6, 162	„ others	..	16, 338
„ Sulphur	..	2, 331	„ Kosmann	..	16, 378
Dichroite	..	3, 434	„ memoirs relating to	...	16, 330
Dichromate of Lead-oxide	...	5, 169	„ of Natuelle	..	16, 336
„ Manganous Oxide		4, 24'	„ Walz	..	16, 331
„ Zinc-oxide	..	5, 48	„ Homolle and Que-		
Dicyanide of Copper	..	3, 482	venne	..	16, 335
Didymite	..	3, 452	Digitalinic acid	....	16, 339
Didymum	..	3, 280	Digitaliretin		16, 327
„ and lanthanum, separa-			Digitaliretin, Glucosides of	..	16, 328
tion of, from ce-			„ of Kosmann		16, 338
rium	..	3, 260, 275	Digitalis, acrid principle of, A.	..	14, 531
„ Nitrate	...	3, 281	„ acrid principle of, B.	...	14, 531
„ Oxide	....	3, 280	Digitalic acid	..	14, 529
„ Salts	..	3, 280	Digitalosmin	..	14, 532
„ separation of, from			Digitalis, fatty acids from	..	16, 341
lanthanum		3, 275, 280	Di-hypocrite of Soda	....	3, 106
„ Sulphate	...	3, 281	Dika-bread, fat of	....	16, 391
Dielectrics	..	1, 312	Dilutrate of Silver	..	10, 182
Diethylamine	....	11, 10	„ Potash	..	10, 182

Diluturic acid	10, 181	Diplosammonum Platinocya-	
Dimorphism	1, 18; and 98—102	nide	8, 45
Dimorphism, Ampère's explana-		Diplosomethylamine	7, 318
tion of	1, 147	Diploite	3, 433
„ of Mercuric Iodide ..	6, 37	Dippel's oil	18, 256
Dimethylamine... ..	7, 319	Dipyrophosphate of Baryta ..	3, 145
Dimethyl-urea	7, 376	Disacryl	9, 363
Dimolybdate of Baryta. .	4, 75	„ -resin	9, 369
Dimylaniline	11, 332	Discharge, electric	1, 315
Diniodide of Copper ..	5, 433	Diselenide of Copper	5, 432
„ and Potas-		Disilicate of Alumina ...	3, 411
sium	5, 460	„ Cerous Oxide	3, 408
„ Mercury	6, 34	„ Ethyl	3, 478
Diodomethylamine	7, 319	„ Ferrous Oxide	5, 278
Dinitramid	15, 110	„ Lime	3, 388
Dinitrammonyl	12, 548	„ Magnesia	3, 395
Dinitrobenzoic acid	12, 134	„ Yttria	3, 409
Dinitro-ethylates	12, 557	Disinfecting power of heat ..	7, 83
Dinitro-euxanthone	17, 183	Dispersion of colour	1, 164
Dinitrophenyl-citraconimide ..	11, 322	Distearn	17, 117
Dinitrosalithol	12, 271	Distillation	1, 288
Diopside	3, 402	„ black	7, 81
Diophtase	5, 464	„ dry or destructive	7, 77
Diosmine	18, 194	„ of volatile oils	7, 159
Dioxide of Copper	5, 403	„ white	7, 81
„ Mercury	6, 5	Distilled Water	2, 61
Dioxymethylene	13, 389	„ Waters	7, 166
Dipalmitin	16, 377	Disulphate of Antimonic Oxide....	4, 361
Diphanne	11, 370	„ Cadmic Oxide	5, 58
Diphanite	3, 447	„ Uranous Oxide	4, 174
Diphenyl-urea	12, 166	Disulphide of Copper	5, 422
Diphocenn	11, 76	„ „ with Oxan-	
Diphosphate of Ammonia	2, 44	thate of	
„ Lime	3, 194	copper	8, 464
„ Magnesia	3, 233	„ Iron	5, 227
„ Soda	3, 91	„ Lead	5, 132
„ Uranous Oxide....	4, 171	„ Mercury	6, 19
„ Zinc-oxide	5, 18	„ Nickel	5, 369
Diphosphide of Copper	5, 417	„ Phosphorus	2, 209
Diphosphite of Lime	3, 191	Dithionic acid	2, 174
Diplatinamine	6, 315	Dithionous acid, <i>see</i> Hyposulphu-	
„ Bichlorhydro-chlo-		rous acid.	
platinate	6, 319	Divalerin	11, 76
„ Bichlorhydro-ni-		Divaniline	11, 307
trate	6, 311	Diolein	17, 85
„ Bichlorhydro-sul-		Döbereiner's Instantaneous	
phate	6, 318	Light Machine	2, 50, 57
„ Chlorhydro-nitrate ..	6, 318	Döbereiner's Vinegar-lamp....	3, 207
„ Hydrochlorates	6, 305, 316	Doeglic acid	17, 179
„ Nitrates	7, 311, 316	„ Ether	17, 180
„ Sesquichlorhydro-		Doegling Train-oil	17, 180
carbonate	6, 309, 317	Dog-bile, preparation of Tauro-	
„ Sesquichlorhydro-		cholic acid from	18, 65
nitrate	6, 312	Dog-fat	16, 391
„ Sesquichlorhydro-		Dolerite	3, 461
phosphate	6, 309, 318	Dolomite	3, 253
Diplatosamine, Hydrochlorate ..	6, 300	Dolphin-oil	16, 323
„ Nitrate	6, 310	„ preparation of Vale-	
		rianic acid from	11, 25

Donacargyrite	6, 195	Drying	1, 271
<i>Dorema armeniacum</i> , resin of ..	17, 396	„ oils	16, 308
Double elective affinity	1, 119	„ alteration of by exposure to the air.	7, 242
„ refined culinary Salt	3, 56	Dryness, effect of, in preventing fermentation and putrefaction	7, 100, 116
„ refraction	1, 164	Dry pile	1, 426
„ refraction of Light	1, 164	Dry rot in wood	15, 157
„ salts	2, 13	Dulcamarine	18, 98
<i>Dracena Draco</i> , resin of	17, 387	Dulcitartrate of Lime	15, 388
Dracm	17, 387	Dulcitan	15, 387
Dracol	12, 261	Dulcite	15, 384, 543
<i>Draco mitigatus</i>	6, 45	„ formation of Glucose from	15, 309
Draconyl	12, 6	Dulcetyl, Bistearate	9, 25, 17, 128
„ chloride	14, 216	„ Quidristearate	17, 128
Dracyl	12, 226	Dulong and Petit's law of the specific heats of elementary atoms	1, 243
Dragon's Blood	17, 387, 618	Dumasin	9, 25; 13, 473
„ preparation of Toluene from	12, 227	Dumas' theory of substitution and types	7, 15
Dreelite	3, 218	Dung, humous substances from . .	17, 476
Drummond's Light	2, 29	Dutch liquid	8, 376
Dry Copper	6, 399	Dynamic hypothesis as to the origin and nature of the phenomena of affinity	1, 158
Dry or destructive Distillation	7, 77	Dyslysm	18, 30
Dry distillation of Organic Substances, formation of Marsh-gas by	7, 251	Dyspeptone	18, 338
<i>Dryabalanops Camphora</i> , borne-cene from the camphor-oil of	14, 311		
<i>Dryabalanops Camphora</i> , oil of	14, 355		

E.

Earth, animal	3, 192	Ebulhosopes	8, 261
„ heavy	3, 134	Ebullition	1, 272
„ of tartar, fohated	8, 297	„ jumping or percussive	1, 276
„ almond oil	17, 95	Ecbalm	17, 367; 18, 194
Earthenware	3, 419	<i>Ecbalium Elaterum</i> , Elaterin in the fruit of	17, 364
„ diffusion of gases through	1, 24	„ <i>Elaterum</i> , preparation of prophetin from	17, 366
„ endosmose through	1, 28	Ecgonme	16, 303
Earth-metals	3, 2	<i>Echium vulgare</i> , ferment-oil of . .	14, 405
„ compounds of, with alcohol-radicals	13, 492	Educts of decomposition	1, 111
Earthnut-oil, preparation of arachidic acid from	17, 370	Edwardsite	3, 265
„ preparation of phytoseleic acid from	16, 317	Efflorescence	1, 13; 2, 64
Earth-resin from Bucaramanga . .	17, 435	Egg, composition of enveloping membrane of	18, 348
Earths	2, 39	Egg-albumin	18, 281
„ absorbent or alkaline	3, 133	Eggs of birds, colouring matter of . .	18, 415
„ electrolysis of	1, 458	„ of lizards and serpents, phosphorescence of	1, 183
Earthy alkalis	3, 133	„ oil of	17, 96
„ cobalt	5, 347	„ preservation of	7, 116
„ cobalt, manganese in	4, 195, 204	Egg-yolk, colouring matter of . . .	18, 414
East Indian grass oil	14, 368	„ lecithine obtained from . . .	18, 374
Eau de Cologne	7, 168	Egyptians, chemical knowledge of . .	1, 3
<i>Elaeagnus</i> , see Pyroxanthin.		Eichwald's Acid-albumin	18, 343

Eichwald's Mucus-peptone .	18, 344	the quantity of, and the quantity of liquid decomposed .	1, 435
Eight-sevenths Sulphide of Iron	5, 230	Electric current of the voltaic battery, tension and quantity of, when de- composing cells are in- troduced .	1, 480
Einhof's Vegetable Wax .	12, 3	" currents in the animal body and in plants .	1, 336
Ekebergite	3, 437	" currents, instruments for the production of, by means of chemical ac- tion	1, 408
Elaeolite	3, 431	" discharge	1, 315
<i>Elaeocarpus copaliferus</i> , copal obtained from .	17, 405	" discharges, decomposi- tions produced by re- peated	1, 430
Elaene	13, 367	" fishes	1, 429
Elaidamide	17, 102	" fluids	1, 309
Elaidate of Ethyl . . .	17, 84	" machine	1, 328
" of Methyl	17, 83	" machine, decomposition produced by the cur- rent of the	1, 437
Elaidates, metallic .	17, 77	" multiplier or galvano- meter	1, 317
Elaidic acid	17, 74	" non-conductors or insu- lators	1, 312
Elaidin	17, 74, 99	" polarisation	1, 473
" formation of, from olive oil	17, 75	" shock	1, 315
Elaierin	16, 400	" spark	1, 315
Elaidehyde	8, 281; 13, 441	Electricities, combination of the two, with one another .	1, 314
Elastic fluids, development of light in, by com- pression	1, 205	Electricity of capillarity? .	1, 319
" dielectric proper- ties of	1, 313	" of the solar rays? .	1, 319
Elasticity and density of gases, relation between .	1, 257	" chemical relations of .	1, 314
" of gases	1, 257	" combinations brought about by	1, 429
Elatin, phosphorescence of . . .	1, 183	" of combustion	1, 329
Elaieric acid	17, 367	" common	1, 324
Elaieride	17, 367	" conductors of	1, 310
Elaierin	17, 364	" by contact, explana- tion of	1, 155
Elaithine	9, 11, 13	" of crystals	1, 319
Elayl	8, 164	" decompositions pro- duced by	1, 430
Elayl, Chloride of	8, 377	" development of	1, 318
Elayl-stannethyl	9, 100	" development of, in decompositions by double affinity . .	1, 341
Elder-flower oil	14, 368	" development of, in decompositions by simple affinity . . .	1, 340
Elecampane-root, preparation of mulin from	15, 112	" development of, by chemical combination .	1, 328
" wax	18, 160	" development of, by combinations ac- companied by de- compositions . . .	1, 340
Elective affinity. . . .	1, 33, 117		
" double	1, 119		
" reciprocal or al- ternating	1, 125		
Elective attraction	1, 33		
Electric Calamine	1, 320		
" currents, heat developed by	1, 315		
" currents, influence of the intensity of, on decomposition . . .	1, 439		
" current, magnetic effects of	1, 317		
" current, Ohm's formulæ relating to the quan- tity of	1, 414		
" current produced by two metals and one liquid, quantity of	1, 376		
" current, mode of studying physiological effects of	1, 462		
" current, relation between			

Electricity, development of, by decompositions effected by heat or light ..	1, 336	Electrolysis produced by the current of the ordinary electrical machine ..	1, 437
„ development of, in detonations ...	1, 340	„ of liquids, development of heat in	1, 496
„ development of, in the evaporation of saline solutions ..	1, 337	„ several liquids in contact with one another ..	1, 465
„ development of, by magnetic action ..	1, 318	„ two liquids in two divisions ..	1, 466
„ development of, by pressure ...	1, 324	„ two liquids in three divisions, one liquid in the middle, and the other two in the exterior divisions ...	1, 469
„ development of, in the escape of steam	1, 338	„ three liquids ...	1, 471
„ development of, in the vital process ..	1, 429	„ individual compounds :	
„ in fermentation ..	1, 341	„ aqueous solutions of iodine, bromine, and chlorine ..	1, 451
„ by friction ...	1, 324	„ hydrated oxygen-acids ..	1, 451
„ influence of, on chemical combination	1, 37, 154	„ hydrated hydrogen acids ...	1, 455
„ imperfect conductors or semi-conductors of ...	1, 311	„ metallic sulphides, iodides, bromides, chlorides, cyanides, sulpho-cyanides, and ferrocyanides ...	1, 456
„ influence of, on chemical decomposition	1, 117	„ alkalis and earths	1, 458
„ influence of, on the chemical nature of ponderable substances ..	1, 429	„ heavy metallic oxides ...	1, 459
„ by induction ..	1, 318	„ oxygen - salts of the alkalis and earths ..	1, 459
„ latent or quiescent	1, 314	„ oxygen - salts of heavy metallic oxides ..	1, 463
„ memoirs relating to relation of, to light	1, 167	„ water ..	1, 446
„ of small tension, decompositions produced by continuous discharge of ...	1, 430	„ water, development of an odorous substance in ..	1, 449
„ statical	1, 314	Electrolyte, influence of the temperature and compression of the, on its decomposition ..	1, 444
„ theories of	1, 309	„ influence of the chemical nature of the, on its decomposition ..	1, 442
Electro-chemical and purely chemical action, distinction between ..	1, 343		
„ -chemical theories ..	1, 154		
„ -chemical theory of combustion ..	2, 37		
„ -deposition of metals	1, 497—510		
Electrodes, influence of the chemical nature of, on decomposition ..	1, 445		
„ influence of the surface of the, on decomposition ..	1, 446		
Electro-gliding ..	1, 497		
Electro-negative and electro-positive elements ...	1, 155		
Electrophorus ...	1, 318		
Electro-plating ...	1, 501		
Electrolysis ...	1, 431		

Electrolyte, influence of the relative volume of, on its decomposition .. 1, 445	Emulsion 18, 455
Electrolytes ... 1, 43, 433	Emydin .. 18, 385
Electrotype 1, 502—510	Enamel 3, 382
Electrum ... 6, 247; 17, 430	Enamels .. 5, 180
Elemi oil .. 14, 289	Endosmose ... 1, 28
„ oil, liquid hydrochlorate of .. 14, 290	English Turpentine, commercial 18, 19
„ resin . 17, 413	Engraved copper plates, electro-type copies of . 1, 506
Elementary analysis of organic compounds 7, 86	Enodic aldehyde .. 14, 529
„ substances, heat-capacity of the atoms of .. 1, 243	Envelope-atoms ... 7, 148
Elements, atomic weights of . 1, 43	„ -nuclei . 7, 148, 170
„ attachment of, to nuclei . 7, 20	Eoidm 16, 521
„ chemical symbols of 1, 50	Enveloping membrane of the egg, composition of . 18, 348
„ division of, into metals and metalloids . 2, 1	Epibichlorhydrin .. 13, 577
„ electro-negative 2, 18	Epibromhydrin . 13, 575
„ electro-negative and electro-positive 1, 155	Epichlorhydrin? . 9, 499
„ electro-positive 2, 19	Epidermis, action of boiling water on . 18, 349
„ grouping of, according to physical and chemical relations ... 2, 1	„ composition of .. 18, 348
„ liquid and solid, specific heat of . 1, 241	Epidermose .. 18, 323
„ list of .. 1, 50	Epidichlorhydrin . 13, 577
„ mode of combination of, in organic compounds . 7, 7	Epidote . . 3, 429
„ non-metallic, classification of .. 2, 18	„ manganesian .. 3, 430
„ non-metallic, enumeration of . 2, 1, 18	Epiglycerobitartrate acid 13, 582
„ number of, in organic compounds .. 7, 6	Epistilbite 3, 443
„ relations between atomic weights and densities of 1, 52—64	Epithelium, composition of .. 18, 348
Elephant fat ... 16, 391	„ of the mucous membrane of whalebone, action of acetic acid on 18, 351
Ellagates .. 16, 187	Epsom salts .. 3, 236
Ellagic acid .. 16, 183	<i>Equisetum fluviatile</i> , preparation of acetic acid from ... 11, 403
Elm leaves, reddened, tannic acid from 15, 533	Equivalents, chemical .. 1, 42
Emerald .. 3, 427	„ Gerhardts .. 7, 27
„ Copper .. 5, 464	Equivalent volume, the reciprocal of the atomic number . . 1, 74
„ Nickel ... 5, 366	Erbia salts . 3, 292
Emetine 17, 379	Erbium and Terbium 3, 291
Emmonite 3, 319	Eremecausis .. 7, 91
Emodin .. 16, 176	Eremecausis, assisted by heat and light. 7, 95
<i>Empoos</i> .. 15, 95	Ergotic acid .. 18, 194
Empyreumatic oil of Tobacco 14, 234	Ergotine .. 18, 194
„ Tar 7, 81	Ergot-of-rye, oil of 17, 96
	„ -sugar 16, 301
	<i>Erica herbacea</i> , Ericolin in . 16, 28
	„ <i>vulgaris</i> , ferment-oil of.. 14, 406
	Ericinol .. 16, 29
	Ericolin .. 16, 201
	Ernite 5, 471
	Erker, Lazarus .. 1, 4
	Erucadic acid 17, 552
	Erucates .. 17, 551
	Erucic acid .. 17, 549
	Erucine ... 14, 528
	Eryglucin 2, 385

<i>Erysimum albaria</i> , oil from root of	10, 55	Ether, Amyl-palmitic	16, 380
<i>Erythraea Centaurium</i> , ferment oil of	14, 405	„ Amyl-stearic	17, 123
Erythrarsin	9, 350	„ Benzacetic	12, 52
Erythrate of Methyl	12, 372	„ Benzyllic	12, 16
Erythric Acid	12, 381	„ Benzylomvic	12, 17
„ Ether.	12, 373	„ Bichlorovinic, combina- tion of chloride of ben- zoyl with	12, 111
Erythrin	12, 373	„ Binitroethyllic	12, 560
„ -bitter	12, 380	„ Butylic	10, 69
Erythrocentaurin	18, 224	„ Caprylic	13, 183
Erythrodanum, <i>see</i> Alizarin.		„ Capryl-stearic	17, 124
Erythroglicin	12, 385	„ Cetyl-acetic	16, 375
Erythroleic Acid	12, 359	„ Cetyl-benzoic	16, 381
Erythrolein	12, 369	„ Cetyl-butyrac	16, 379
Erythrolitmin	12, 370	„ Cetylic	16, 342
Erythromannite	12, 385	„ Cetyl-succinic	16, 379
<i>Erythronium</i>	4, 80	„ Chloroanthic	12, 460
Erythrophyll	17, 1	„ Chlorosulphuretted	9, 225
Erythroretin	16, 176	„ Ethyl-benzoic	12, 221
Erythrosin	18, 406	„ Ethyl-benzyllic	12, 17
<i>Erythrozyon Coca</i> , preparation of Cocaine from the leaves of	16, 300	„ Ethyl-butylic	10, 70
Erythrozym, action of, on milk-sugar	15, 224	„ Ethyl-caprylic	13, 199
„ action of, on rubian	14, 135, 16, 37	„ Ethyl-cetylic	16, 375
Erythrozym, preparation of	16, 64	„ Ethylic	8, 171
Erythrylin	12, 384	„ „ action of chlorine on	7, 35
<i>Escholtzia</i> , acrid alkaloid of	17, 162	„ „ action of sulphuric acid on	10, 518
„ bitter alkaloid of	17, 163	„ „ combinations of	8, 189
Esculin, <i>see</i> Aesculin.		„ „ decomposition of, by bromine	8, 185
Esenbeckin	18, 225	„ „ decomposition of, by chlorine or bromic acid	8, 186
Esmarkite	3, 435	„ „ decomposition of, by chlorine	8, 183
Eserine	17, 595	„ „ decomposition of, by heavy metal- lic oxides	8, 189
Essene, Oxide of	12, 85	„ „ decomposition of, by hydrotic acid gas	8, 187
<i>Ester</i>	7, 190, 215	„ „ decomposition of, by hydrochloric acid gas	8, 187
Ethal	16, 343	„ „ decomposition of, by metallic chlorides	8, 187
„ preparation of lauric acid from	15, 46	„ „ decomposition of, by nitric acid	8, 186
„ preparation of palmitic acid from	16, 354	„ „ decomposition of, by phosphorus and sodium	8, 189
Ethalone, <i>see</i> Palmitone.			
Ethamine	9, 56		
Ethamamine	11, 331		
Ethamyl	11, 5		
Ethaniline	11, 305		
„ -urea	11, 333		
Ethene	8, 164		
„ -sulphuric acid, formation of	13, 420		
Ethenides	7, 23		
Ether	8, 171		
„ Acetobenzolic	12, 223		
„ Amyl-benzolic	12, 222		
„ Amyl-caprylic	13, 202		
„ Amyl-cetylic	16, 379		
„ Amylic	11, 7		
„ Amyl-cenanthylic	13, 202		

Ether, Ethylic, decomposition of, by rapid combustion ...	8, 178	Ether, Methyl-oleic	17, 82
" " decomposition of, by a red heat ..	8, 177	" " -palmitic	16, 373
" " decomposition of, by slow combustion ..	8, 178—188	" " -stearic	17, 114
" " decomposition of, by sulphuric acid ..	8, 186	" Muriotic	8, 368
" " decomposition of, by terfluoride of chromium ..	8, 188	" Nitrous	8, 468
" " formation of ..	8, 171	" Ceanthic	12, 457
" " mixtures of, with alcohol ..	8, 273	" Perchlorinated, comburent properties of ..	10, 537
" " preparation of ..	8, 172	" Perchloroxalic ..	9, 243
" " solution of volatile oils in ..	7, 169	" Sulphuric	8, 413
" " supposed relative position of atoms in ..	7, 33	" Sycoceryl-acetic ..	17, 44
" " tribasic sulphate of ..	10, 518	" " -benzoic ..	17, 45
" " vapour tension of, at different temperatures ..	1, 262	" Valerianic	11, 71
" " and water, formation of, from alcohol ..	8, 225	" Valerobenzolic ..	12, 224
" Ethyl-ceanthyl ..	13, 199	" Vinamyl ..	11, 8
" Ethyl-stearic ..	17, 115	" Vinic, <i>see</i> Ether Ethylic.	
" Hydriodic ..	8, 385	" " Bichlorinated ..	9, 197
" Hydrobromic	8, 385	" " Bisulphuretted ..	9, 184
" Hydrochloric ..	8, 386	" " Monochlorinated ..	9, 192
" Hydrochloric, bi-chlorinated ..	9, 193	" " Perchlorinated ..	9, 216
" Hydrochloric, heavy ..	8, 373	" Vinobenzyl ..	12, 17
" " light ..	8, 368	" Vinobutyl ..	10, 70
" " monochlorinated ..	8, 375	" Vinomethyl ..	8, 192
" " quadrichlorinated ..	9, 213	Ethereal liquid distilled from ripe quinces ..	12, 459
" " terchlorinated ..	9, 199	" " nitrous gas ..	8, 217
" Hydroselenic ..	8, 356	" " substances ..	1, 160
" Hydrosulphuric ..	8, 337	Etheric acid ..	8, 180
" " quadrichlorinated ..	9, 214	Etherification ..	8, 225, 13, 416
" Indigotic ..	12, 312	" " theory of ..	8, 231
" Mestic ..	9, 25	Etherin ..	8, 164, 13, 176
" Metacetic ..	9, 49	" " first Hydrate of ..	8, 171
" Methamyl ..	11, 8	Ethers, action of phosphorus trichloride on ..	10, 487
" Methylbenzolic ..	12, 221	" " classification of ..	7, 190
" Methyl-caprylic ..	13, 198	" " compound, action of alkaline hydrates on ..	13, 380
" Methyl ..	7, 256	" " compound, formation of ..	7, 35
" Methyl-elaidic ..	17, 82	" " compound, formed by oxygen-acids ..	7, 215
" " -ceanthyl ..	13, 198	" " constitution of ..	7, 189
		" " ethylic, of oxygen-acids, <i>see</i> the several Ethyl-salts.	
		" " mixed	7, 191
		" " tables of expansion of, by heat	1, 226—230
		" " of the third class, composition, and formation of ..	7, 215
		" " tabular view of ..	7, 218
		" Amylic ..	7, 220
		" Bibromacetic ..	13, 532
		" Caproic ..	13, 424
		" Hydriodic, action of, on sulphocyanides ..	13, 413
		" Hydriodic, decomposition of cyanides by ..	13, 408
		" Methyl ..	7, 218

Ethers, Vinic or Ethylic ..	7, 218	Ethyl, Camphorate ..	14, 464
Ethide, Stannic ..	13, 506	Camphorate, chlorinated ..	14, 466
Ethionates	8, 433	Caprate ..	14, 489
Ethylbromaniline ..	11, 309	Caproate ..	11, 419
Ethylchloraniline ..	11, 309	Caprylate ..	13, 201
Ethyl ..	8, 168	Carbamate ..	9, 274
Abietate ...	18, 7	Carbohydrokinonate ..	16, 240
Acetate ..	8, 493	Carbolate ..	12, 270
Acetate, action of chlorine on ..	13, 534	Carbonate ..	8, 392
Acetate, formation of, by the action of chlorine on alcohol	8, 212	Carbonate, formation of urea by the action of ammonia on ..	13, 402
Aconitate ..	11, 408	Carminate ? ..	16, 209
Acrylite ..	9, 372	Cerotate ..	13, 138
Adipate ..	11, 424	Chloranisate ..	13, 186
Alcohol, formation of, in vinous fermentation ...	15, 265	Chloride ..	8, 367
Alcohol and Ethers, expansion of, by heat ..	1, 226—232	Chlorobenzoate ..	12, 115
Allophanate ...	9, 267	Chlorocerotate ..	18, 140
Amidobenzoate ..	12, 143	Chlorocyanide ? ..	8, 492
Amidocuminate ...	14, 176	Chlorocyanurate ..	13, 563
Amygdalate ..	15, 430	Chloroferrocyanide ..	9, 354
Anchoate ..	13, 376	Chloroformate ..	11, 178
Angelate ..	10, 417	Chloronitrobenzoate ..	12, 139
Anisate ..	13, 130	Chloropropionate ..	13, 560
Arachidate ..	17, 373	Chloropyromucate ..	10, 387
Benate	17, 560	Chlorosuberate ..	13, 214
Benzoate ..	12, 60	Chlorosulphate	13, 455
Benzylate ..	12, 17	Cholate ..	18, 56
Biborate ..	8, 396	Chrysanisate ..	12, 303
Bibromacetate ..	12, 535; 13, 532	Cimicate ..	16, 286
Bibromobutyrate ..	10, 138	Cinnamate ..	13, 281
Bichlorobutyrate ..	10, 142	Citraconate ..	10, 423
Bichlorocarbonate ..	9, 225	Citrate ..	11, 463
Bimodide ...	8, 362	Comenamate ..	11, 395
Binitrobenzoate ...	12, 136	Cuminate ..	14, 155
Binitrocuminate ..	14, 172	Cyanate ..	8, 486
Binitroethylate ..	12, 560	Cyanate, hydrochlorate of ..	13, 563
Bioxysulphocarbonate ..	8, 441	Cyanide ..	8, 486
Bisulcate ..	8, 481	Cyanide, compound of, with chloride of carbonyl ..	13, 457
Bisulphide ..	8, 351	Cyanide, compound of, with metallic chlorides ..	13, 457
Bitelluride ..	8, 387	Cyanurate ..	9, 459; 13, 562
Borate ..	12, 513	Disilicate ..	8, 478
Borate, terbasic	8, 394	Doeglate ..	17, 180
Bromacetate ...	12, 534	Eladate	17, 84
Bromanisate ..	13, 134	Ethyltrithionate	12, 515
Bromide ..	8, 365; 12, 512	Eugenate ..	14, 211
Bromide, action of mercuric oxide on ...	13, 417	Everminate	16, 416
Bromide, action of water on ..	13, 418	Erythrate ..	12, 373
Bromide, preparation of ..	13, 451	Ferridcyanide ? ..	9, 354
Bromide and Iodide of, action of, upon alcohol ..	13, 418	Ferrocyanide ..	9, 353
Butyrate ..	10, 556	Fluoride ? ..	8, 382
Butyrate ..	10, 91	Formiate ..	8, 482
		Formate, tribasic ..	9, 360
		Fulminurate ..	10, 561
		Fumarate ..	10, 31
		Gaedinatate ..	16, 320

Ethyl, Hippurate	12, 81	Ethyl, Perchlorosuccinate .	10, 143
„ Hydrated oxide of .	8, 194	„ Phosphate	8, 399
„ Hydride	8, 163	„ Phosphate, tribasic ..	9, 358
„ Hydride, its coefficients of absorption in water ..	13, 414	„ Picrate	11, 227
„ Hydrosulphate	8, 340	„ Physetoleate	16, 319
„ Hypogæate	16, 319	„ Pimelate	12, 465
„ Iodacetate	13, 530	„ Platinocyanide	13, 459
„ Iodide	8, 358; 12, 512	„ Plumbides	9, 106
„ Iodide, action of mercuric oxide on	13, 417	„ Propionate	9, 409; 10, 556
„ Iodide, action of, on sil- ver salts	13, 451	„ Pyromucate	10, 386
„ Iodide, action of water on	13, 418	„ Pyrotartrate	11, 100
„ Iodide, preparation of	13, 451	„ Ricinelaideate	17, 144
„ Jalapmolate	16, 403	„ Ricinoleate	17, 143
„ Kinate	16, 234	„ Roccellate	16, 478
„ Lactate	11, 496	„ Salicylate	12, 259
„ Lactate, with chloride of calcium	11, 497	„ Sebate	14, 499
„ Laurate. .	15, 49	„ Selenide	8, 356
„ Lecanorate	12, 373	„ Stearate	17, 115
„ Malamate (aspartate ?) .	10, 239	„ Suberate	13, 213
„ Malate	10, 227	„ Succinate	10, 133
„ Mercuric	13, 512	„ Sulphate	8, 413
„ Mesaconate	10, 133	„ Sulphide	8, 337; 13, 450
„ Monochloracetate ..	12, 539	„ Sulphide, action of chlorine on	10, 513
„ Monosilicate	8, 480	„ Sulphide, Bichlorinated	10, 513
„ Mucate	11, 510	„ Sulphide, compound of with Mercuric Iodide .	13, 450
„ Myristate	16, 215	„ Sulphide, Trichlorinated	10, 514
„ Nitranisate	13, 140	„ Sulphide, Tetrachlori- nated	10, 514
„ Nitrate	8, 475; 13, 456	„ Sulphite	8, 405
„ Nitrate, action of alkaline hydrates on	13, 388	„ Sulphobenzate	12, 62
„ Nitrite	8, 468	„ Sulphobenzolate	11, 156
„ Nitrobenzoate	12, 128	„ Sulphocarbonate	8, 465
„ Nitrocapyrylate ..	13, 218	„ Sulphocyanide	8, 489; 13, 461
„ Nitrochloroniceate .	11, 204	„ Sulphonaphthalate	14, 506
„ Nitrocinnamate ..	13, 301	„ Sulphosacchylate	12, 281
„ Nitrotoluylate	13, 25	„ Tartrate	10, 344
„ Oenanthylate	12, 454	„ Tartate	10, 343
„ Oleate	17, 83	„ Telluride	8, 333
„ Opianate	14, 433	„ Terebulate	12, 469
„ Orsellate	12, 373	„ Thiacetate	9, 356
„ Oxalate	9, 178	„ Toluylate	13, 10
„ Oxalate, formation of glu- cose from	15, 310	„ Valerate	11, 71
„ Oxatolylate	17, 154	„ Veratrate	13, 355
„ Oxide	8, 171	„ Xanthate	8, 439
„ Oxide, action of sulphuric anhydride on	12, 483	„ and Barium, Phosphites	9, 360
„ Oxide, compound of, with zinc-methyl	13, 397	Ethyl and Silver, Cyanide of	13, 458
„ Oxy sulphocarbonate ..	8, 439	Ethylacetamide .	9, 246
„ Oxy sulphocyanide ..	8, 490	Ethylacetone	13, 473
„ Palmitate	16, 375	Ethyl-allyl-ether	13, 539
„ Pelargonate	13, 372	„ -allyl-urea	13, 546
„ Perchlorate	8, 467	Ethylamine	9, 56
„ Perchlorocarbonate ..	9, 226	„ compounds of, with protochloride of pla- tinum	9, 61
		„ formation	13, 479
		„ Hydrochlorate of, with cyanide of mercury	9, 62

Ethylamine, Molybdate . . .	13, 481	Ethyldiacetamide . . .	9, 247
„ Oxalate . . .	9, 172	Ethylene . . .	8, 162
„ Phosphomolybdate . . .	13, 481	„ Acetate . . .	12, 502
„ salts . . .	9, 59	„ Acetate, Basic ? . .	13, 430
„ separation of, from		„ Acetobutyrate . . .	13, 433
„ ammonia . . .	13, 480	„ Biacetate . . .	13, 430
„ Sulphate . . .	13, 480	„ Bibenzoate . . .	13, 433
„ and Magnesium, phos-		„ Bibromide . . .	8, 366
„ phate of . . .	13, 480	„ Bibromide and Brucine,	
„ -alum . . .	13, 481	„ compounds obtained	
Ethyl-ammonia . . .	9, 56	„ from . . .	17, 588
Ethylammonium, Platinocyanide	13, 458	„ Bibromide and Strych-	
Ethylamyl . . .	10, 564	„ nne, compounds ob-	
Ethylamylaniline . . .	11, 331	„ tained from . . .	18, 512
Ethylaniline . . .	11, 305	„ Butyrate . . .	13, 432
„ -urea . . .	11, 333	„ Bichloride . . .	8, 376
Ethylate of Benzyl . . .	12, 17	„ Biethylate . . .	13, 427
„ Benzylene . . .	12, 221	„ Bimodide . . .	8, 362
„ Butyl . . .	10, 70	„ Bistearate . . .	13, 434, 17, 116
„ Ethylene . . .	12, 519, 13, 426	„ Bisulphide . . .	8, 354
„ Methyl . . .	8, 192	„ Chloride, preparation of	10, 515
„ Octyl . . .	13, 199	„ Decasulphide ? . .	8, 355
„ Sodium . . .	13, 420	„ Ethylate . . .	12, 519, 13, 426
Ethylated Sulphuric acid	13, 414	„ formation of alcohol	
Ethyl-bases containing arsenic		„ from . . .	10, 511
and phosphorus . . .	13, 492	„ Hydrate . . .	12, 501
Ethyl-benzolic ether . . .	12, 221	„ Hyposulphite ? . .	8, 404
„ -benzyllic ether . . .	12, 17	„ Methylate . . .	12, 520
Ethyl-bibromallylamine	13, 550	„ Methyl ethylate . . .	12, 520
Ethyl-bibromosalicylic acid	12, 290	„ Monoacetate . . .	13, 429
Ethyl-bichlorosalicylic acid	12, 299	„ Oxalate . . .	13, 432
Ethyl-biennamylamine	13, 307	„ Oxide . . .	13, 424
Ethyl-binitrosalicylic acid	12, 319	„ Sulphocyanide . . .	10, 521, 13, 461
Ethyl-binitrophoretic acid	13, 333	„ supposed relative posi-	
Ethyl-bromosalicylic acid	12, 286	„ tion of atoms in . . .	7, 32
Ethyl-brucine . . .	17, 587	„ Tetrasulphide . . .	8, 354
Ethyl-butyl . . .	10, 563	„ and Hydrogen, Sulphide	
„ -butylic ether . . .	10, 70	„ of . . .	8, 403
„ -camphoric acid . . .	14, 465	„ -bases . . .	13, 485
„ -caprylic ether . . .	13, 199	„ -biamine . . .	13, 486
„ -carbohydromonic acid . .	16, 240	„ -brucine . . .	17, 589
„ -cetylic ether . . .	16, 375	„ -diamine . . .	13, 486
Ethyl-chinoline . . .	13, 254	„ -gas, effect of, in retard-	
Ethyl-codeine . . .	17, 42	„ ing the combustion of	
Ethyl-collidine . . .	13, 149	„ detonating gas in con-	
„ -comenic acid . . .	11, 389	„ tact with platinum, &c	2, 53
„ -compounds, conjugated,		„ -gas and Iodine, com-	
„ containing antimony . .	9, 79	„ bination of, in sun-	
„ -compounds, conjugated,		„ shine . . .	1, 170, 8, 362
„ containing arsenic . . .	9, 70	„ gas, solubility of, in	
„ -compounds, conjugated,		„ alcohol . . .	8, 273
„ containing bismuth . . .	9, 86	„ air, ozonized . . .	8, 182
„ -compounds, conjugated,		„ -stannethyl . . .	9, 100
„ containing lead . . .	9, 106	„ -strychnine, hydrate of	17, 513
„ compounds, conjugated,		„ -strychnine, hydrobro-	
„ containing mercury . . .	9, 109	„ mate . . .	17, 512
„ -compounds, conjugated,		Ethyl-glycol . . .	13, 426
„ containing tin . . .	9, 91	„ -glucose . . .	15, 331
Ethyleonine . . .	13, 170	„ -glycerin . . .	12, 503

Ethyl-hemipinic acid . . .	14, 434	Ethylurea . . .	9, 291
„ -hydroberberine . . .	17, 256	Ethylurethane . . .	9, 276
Ethylia . . .	9, 56	Eucalyn . . .	15, 298
Ethylide of Hydrogen . . .	8, 170	Euchlorine . . .	2, 304
Ethylic Ether . . .	8, 171	Euchroate of Ammonia . . .	10, 20
Ethylide of potassium . . .	13, 491	„ Baryta . . .	10, 20
„ of sodium . . .	13, 491	„ Lead . . .	10, 20
Ethylidene Bromide . . .	13, 451	„ Silver . . .	10, 21
„ Chlorethylate . . .	13, 454	Euchroic acid . . .	10, 18
„ Chloride . . .	13, 452	Euchroite . . .	5, 473
„ Oxychloride . . .	13, 453	Euchrone . . .	10, 19
Ethyl-irisine . . .	13, 255	Euclease . . .	3, 425
Ethyl-lepidine . . .	14, 121	Eudialite . . .	3, 464
Ethyl-mannitan . . .	15, 374	„ earths contained in . . .	3, 349
Ethyl-mercuric Nitrate . . .	8, 477	Eudiometry . . .	2, 403
Ethyl-meconate of Baryta . . .	12, 431	Eugenate of Ammonia . . .	14, 204
„ Silver . . .	12, 432	„ Anisyl . . .	14, 213
Ethyl-meconic acid . . .	12, 431	„ Baryta . . .	14, 205
„ acid, Meconate of . . .	12, 432	„ Benzoyl . . .	14, 211
Ethyl-methyl, Stannic . . .	13, 509	„ Copper . . .	14, 206
Ethyl-methyleonine . . .	13, 173	„ Cumyl . . .	14, 213
Ethyl-methylic Carbonate . . .	8, 393	„ Ethyl . . .	14, 211
Ethyl-morphine . . .	16, 439	„ Iron . . .	14, 206
Ethyl-mucic acid . . .	11, 511	„ Lead . . .	14, 206
Ethyl-naphthylamine . . .	14, 120	„ Lime . . .	14, 206
„ nicotine . . .	14, 236	„ Magnesia . . .	14, 206
Ethyl-nitroaniline . . .	11, 309	„ Potash . . .	14, 205
Ethyl-nitrosalicylic acid . . .	12, 312	„ Quinine . . .	17, 617
Ethyl-chloride of Platinum . . .	8, 388	„ Soda . . .	14, 205
Ethyl-cenanthylic Ether . . .	13, 199	„ Strontia . . .	14, 206
Ethyl-oxamic acid . . .	9, 262	„ Toluyl . . .	14, 212
Ethyl-oxamide . . .	9, 266	Eugenates, metallic . . .	14, 202
Ethyl-phloretic acid . . .	13, 314	Eugenethyl . . .	14, 211
Ethyl-phosphoric acid . . .	8, 399; 13, 456	<i>Eugenia caryophyllata</i> , volatile oil of . . .	14, 209
Ethyl-phosphorous acid . . .	8, 397	Eugenic acid . . .	14, 201
Ethyl-phthalamine . . .	13, 21	„ acid, volatile oils containing . . .	14, 209
Ethyl-phthalidine . . .	13, 35	Eugenin . . .	14, 200
Ethyl-picoline . . .	11, 272	Eugenol . . .	14, 202
Ethyl-piperidine . . .	10, 451	<i>Euglena viridis</i> , preparation of paranylene from . . .	15, 122
Ethyl-piperidine urea . . .	15, 17	Enkairite . . .	7, 197
Ethyl-pteritanic acid . . .	15, 503	Eukalyn . . .	15, 298
Ethyl-pyridine . . .	10, 408	Eudic or Eudic Aldehyde . . .	14, 530
Ethyl-quinidine . . .	17, 310	<i>Euonymus europæus</i> , colouring matter of . . .	16, 520
„ quinine . . .	17, 308	„ <i>europæus</i> , oil from the seeds of . . .	17, 98
„ salicyl, Benzoate of . . .	12, 260	Euosmite . . .	17, 436
Ethyl-salicylamic acid . . .	12, 323	Eupatorine . . .	18, 195
Ethyl-salicylic acid . . .	12, 259	<i>Euphorbia cyparissias</i> , resins of . . .	17, 415
Ethyl-sparteine . . .	16, 282	„ <i>lathyrus</i> , oil from the seeds of . . .	17, 96
Ethyl-stannethyl . . .	9, 104	Euphorbic acid (<i>malic acid</i>) . . .	10, 207
Ethyl-strychnine . . .	17, 510	Euphorbium . . .	17, 415
Ethyl-sulphates, <i>see</i> Sulphovinates.		Euphrasatanic acid . . .	15, 518
Ethyl-sulphates . . .	8, 408	Euphone . . .	15, 152
Ethyl-sulphobenzonic acid . . .	12, 63		
Ethyl-sulphuric acid . . .	8, 415		
Ethyl-sulphurous acid . . .	8, 408		
Ethyl-tannaspic acid . . .	15, 499		
Ethyl-toluidine . . .	12, 340		
Ethyl-triphenylammonium . . .	11, 336		
Ethyl-trithionic acid . . .	12, 513		

Euxanthates	17, 538	Expansion of bodies in passing	
Euxanthic acid	15, 348; 17, 530	from the liquid or	
„ acid, preparation of		solid to the gaseous	
styphnic acid from .	11, 230	state ..	1, 258
Euxanthone . . .	17, 181	„ and equivalent vo-	
„ preparation of		lume, supposed re-	
styphnic acid		lation between .	1, 233
from . . .	11, 230	„ of gases and vapours	
Euxenite	4, 13	by heat ..	1, 224
Evaporating receiver (Bons-		„ influence of, on com-	
dorff's)	1, 289	bination ..	1, 37
Evaporation	1, 271	„ of liquids by heat	1, 225
„ amorphous bodies		„ solids by heat ..	1, 232
produced by	1, 103	Explosion resulting from decom-	
„ cold produced by	1, 274	position . . .	1, 134
Even numbers of atoms, law of	7, 6	Explosive starch ..	15, 106
Evernic acid ...	16, 443	External form of crystals ..	1, 15
Everninate of Ethyl ..	16, 446	Extract of Lead . .	8, 314
Evernic acid . . .	16, 445	Extractive matter, acrid	16, 85, 91
Evernitic acid	16, 447	„ „ colourless .	16, 513
Excretin . . .	18, 245	<i>Extractum Saturni</i> ..	8, 314
Exosmose	1, 28	Eye, black pigment of .	18, 417

F.

<i>Faba Pichurim majores</i> , fat of	16, 398	Faraday's Voltameter	1, 435
Fæces, excretin obtained from ..	18, 246	Fat of Bay or Laurel . .	16, 393
Fagine	18, 195	„ Bichuyba ..	16, 396
<i>Fagus sylvatica</i> , oil from the		„ Blood . .	16, 486
kernels of . . .	17, 94	„ <i>Brindonia indica</i> .	16, 387
Fahl-ore	5, 492	„ Calf . .	16, 388
Fahlunite	3, 435	„ Camel . .	16, 388
Fahrenheit into Centigrade de-		„ Cantharides ..	16, 388
grees, table for con-		„ Coccus grains	16, 389
verting	2, 500	„ Cochineal . .	16, 389
„ Reaumur and Centi-		„ Cocoa . . .	16, 389
grade scales, com-		„ Coffee ...	16, 390
parative table of	1, 237	„ crystalline from oil of	
False decomposition	1, 113	mustard	17, 552
„ precipitation	1, 113	„ of <i>Cyclicodaphne sebifera</i>	16, 390
Faraday's Battery	1, 424	„ Deer . .	16, 390
„ Dielectrics ..	1, 312	„ Dika-bread	16, 391
„ discovery of the		„ Dog ...	16, 391
production of circular		„ Elephant ...	16, 391
polarisation		„ <i>Faba Pichurim majores</i>	16, 398
by magnetic or		„ Fox . . .	16, 391
electric dynamic		„ Goat ...	16, 391
force .. .	1, 168	„ Goose ...	16, 391
„ experiments on elec-		„ Hare ...	16, 391
tricity developed		„ Hog ..	16, 391
in the escape of		„ Horse ..	16, 391
steam through		„ Human ..	16, 392
pipes	1, 338	„ of Jaguar . .	16, 392
„ method of liquefying		„ Maize-seed ...	16, 393
gases	1, 286	„ Mutton . .	16, 394
„ researches on the		„ Ox . . .	16, 397
relations of light		„ Pheasant .	16, 398
to magnetism	1, 168	„ <i>Pestaria Lentiscus</i> ..	16, 398

- Fat of Potatoes . . . 16, 398
 " Sheep . . . 16, 394
 " (or wax) of Shellac . . 16, 399
 " of Turtle . . . 16, 400
 Fats, mixtures of, with volatile oils . . . 7, 169
 " phosphoretted . . . 16, 483
 " of Plant-lice . . . 16, 398
 " preparation of oleic acid from . . . 17, 63
 " saponifiable, yielding glycerin . . . 7, 227
 " simple and mixed, saponification of . . . 7, 233
 " solid, natural . . . 16, 385
 " unsaponifiable . . . 7, 229
 " from various species of *Bassia* . . . 16, 385
 " of various species of *Myristica* . . . 16, 395
 " Wool . . . 16, 400
 Fatty Acids . . . 7, 229
 " from *Digitalis* . . . 16, 341
 " separation of . . . 16, 210
 " solid, separation of . . . 15, 46
 " matters, preparation of succinic acid by oxidation of . . . 10, 112
 " oil of black mustard . . 17, 553
 " oil of spruce fir . . . 16, 316
 " " white mustard . . 17, 553
 " oils occurring in nature . 17, 89
 Favre and Silbermann's determinations of the specific heats of liquids . . . 1, 248
 Fayalite . . . 5, 278
 Feather-ore . . . 5, 176
 " -salt . . . 5, 276
 Feathers, action of hot water on . . . 18, 319
 " colouring matter of . . 18, 419
 " composition of . . . 18, 348
 Fécula . . . 15, 76
 " soluble . . . 15, 94
 Felspar . . . 3, 441
 " artificial . . . 3, 442
 Fennel oil . . . 14, 196
 Fergusonite . . . 4, 11
 Ferment of urine . . . 18, 413
 Fermentable substances . . 7, 98
 Fermentation, alcoholic or vinous 15, 265
 " attributed to action of fungi . . . 7, 110
 " butyric . . . 10, 81
 " electricity in . . . 1, 341
 " lactous 11, 473; 15, 276
 " nature and conditions of . . . 7, 96
 " of protein and gelatin compounds, prevention of . . . 7, 99
 Fermentation, references to memoirs relating to . . . 18, 462
 " of sugar, various kinds of . . . 7, 98
 " theories of . . . 7, 109
 " liquors, occurrence of glycerin in . . 13, 566
 Ferment-oil of *Achillea Millefolium* . . . 14, 406
 " *Chelidonium majus* . . . 14, 405
 " *Choerophyllum sylvestre* . . 14, 405
 " *Conium maculatum* . . . 14, 405
 " diseased apples (*Malori*) . . . 14, 408
 " *Echium vulgare* . . . 14, 405
 " *Erica vulgaris* . . . 14, 406
 " *Erythraea Centaurium* . . . 14, 405
 " *Marrubium vulgare* . . . 14, 406
 " *Quercus Robur* . . . 14, 406
 " *Salix pentandra* . . . 14, 407
 " *Salvia pratensis* . . . 14, 407
 " various species of *Plantago* . . 14, 406
 " *Tussilago farfara* . . . 14, 406
 " *Trifolium fibrinum* . . . 14, 407
 " *Urtica urens* . . . 14, 407
 " *Vitis vinifera* . . . 14, 407
 Ferments . . . 7, 98
 Fern-root, resin of . . . 17, 449
 Ferrate of Baryta . . . 5, 273
 " Potash . . . 5, 265
 Ferric Acetate . . . 8, 320, 13, 446
 " Acid . . . 5, 201
 " Ammonio-azophosphate . . 5, 261
 " Anacardate . . . 17, 522
 " Apocrenate . . . 17, 470
 " Arseniate . . . 5, 307
 " Arsenio-sulphate . . . 5, 308
 " Arsenite . . . 5, 304
 " Aspartate . . . 10, 237
 " Azophosphate . . . 5, 259
 " Benzoate . . . 12, 42
 " Benzoglycolate . . . 12, 68
 " Borate . . . 5, 222
 " Bromate . . . 5, 251
 " Bromide . . . 5, 250
 " Cacodylate . . . 9, 330
 " Carbonate ? . . . 5, 222

Ferric Chelidonate	12, 420	Ferric Salts	5, 198
„ Chloride ..	5, 253	„ Salts, red colour pro-	
„ „ hydrocyanate of	8, 149	duced in, by Meconic	
„ Chromate ..	5, 299	acid ..	12, 429
„ Chrysammate ..	12, 6	„ Sebate ..	14, 498
„ Citrate	11, 457	„ Selenite ..	5, 247
„ Comenate ..	11, 387	„ Silicate ..	5, 281
„ Crenate ..	17, 468	„ Suberate ..	13, 211
„ Croconate ..	10, 393	„ Succinate ..	10, 126
„ Cyanide ..	7, 448	„ Succinate, colloidal	15, 539
„ Ferrocyanide ..	7, 437	„ Sulpharseniate ..	5, 309
„ Formiate ..	7, 280	„ Sulpharsenite ..	5, 309
„ Fumarate ..	10, 29	„ Sulphate ..	5, 241
„ Hippurate ..	12, 80	„ Sulphide ..	5, 231
„ Hydrate ..	5, 196	„ Sulphite ..	5, 236
„ Hydrate, modification of,		„ Sulphocarbonate	5, 246
precipitated from solu-		„ Sulphocyanide	8, 88
tion of ferric acetate by		„ Sulphomolybdate	5, 298
boiling ..	10, 512	„ Sulphotellurate	5, 312
„ Hydrobromate ..	5, 251	„ Sulphotungstate	5, 297
„ Hydrochlorate, basic	5, 255	„ Tannate ..	16, 469
„ Hydrofluante, basic	5, 257	„ Tantallate ..	5, 292
„ Hydrosulphate ..	5, 232	„ Tartarate ..	10, 314
„ Hypophosphate ..	5, 223	„ Tellurate ..	5, 312
„ Hypophosphite ..	5, 223	„ Tellurite ..	5, 312
„ Hyposulphate ..	5, 237	„ Terhydrochlorate	5, 254
„ Iodate ..	5, 249	„ Terhydrocyanate	7, 449
„ Iodide ..	5, 247	„ Terhydrofluante	5, 256
„ Itaconate ..	10, 427	„ Tersilicate ..	5, 282
„ Kinate ..	16, 231	„ Titanate ..	5, 292
„ Lactate	11, 492	„ Valerate ..	11, 35
„ Malate ..	10, 224	„ Vanadate ..	5, 298
„ Maleate ..	8, 158	Ferrico-alummic Sulphite	5, 277
„ Mellitate ..	10, 9	„ -ammonic Carbonate	5, 260
„ Metaphosphate ..	5, 227	„ -ammonic Chloride]	5, 263
„ Molybdate ..	5, 297	„ -ammonic Sulphate	5, 269
„ Nitrate ..	5, 258	„ -calcic Aisemate	5, 309
„ Nitrobenzoate ..	12, 126	„ -calcic Hyposulphite	5, 274
„ Nitrohippurate ..	12, 131	„ -manganic Phosphate	5, 303
„ Oxalate	9, 157	„ -potassic Carbonate	5, 268
„ Oxide ..	5, 194	„ -potassic Chloride	5, 271
„ Oxide with Chromic		„ -potassic Fluoride	5, 271
oxide ..	5, 299	„ -potassic Sulphate	5, 268
„ Oxide, reactions of, with		„ -sodic Carbonate	5, 272
Organic acids ..	7, 210	„ -sodic Pyrophosphate	5, 272
„ Oxide with Zinc-oxide	5, 313	„ -sodic Sulphate ..	5, 273
„ Oxybromide ..	5, 251	Ferricyanide of Ammonium	7, 450 ; 7, 452
„ Oxychloride ..	5, 255	„ Barium and Po-	
„ Oxyfluoride ..	5, 257	tassium ..	7, 481
„ Periodate ..	5, 250	„ Calcium ..	7, 483
„ Persulphomolybdate	5, 298	„ Cobalt ..	7, 497
„ Phosphate ..	5, 225	„ Cupric ..	7, 8
„ Phosphite	5, 223	„ Cuprous ..	8, 8
„ Phosphosulphate	5, 246	„ of Ethyl ?	9, 354
„ Pyromecenate ..	10, 442	„ Ferrous (Prussian	
„ Pyromucate	10, 385	blue, A)	7, 435
„ Pyrophosphate ..	5, 227	„ of Iron and Potas-	
„ Pyrotartarate ..	11, 96	sium ..	7, 477
„ Racemate	10, 358		

Ferricyanide of Lead	7, 491	Ferrocyanide of Potassium with	
" Magnesium	7, 485	Cyanide of Mer-	
" Manganese	7, 488	cury	8, 25
" Nickel	7, 500	" Potassium, de-	
" Potassium	7, 468; 13, 408	composition of,	
" Potassium and		by sulphuric	
Silver	8, 32	acid	12, 495
" Sodium	7, 479	" Potassium, for-	
" Sodium	7, 478	mation of	7, 453
" Zinc	7, 490	" Potassium, green	7, 468
Ferricyanides, solubility of, in		" Potassium, pre-	
alcohol	8, 273	paration of, on	
Ferridcyanides, <i>see</i> Ferricyanides.		the large scale	7, 453
Ferriprussic Acid	7, 449	" Potassium, pre-	
Ferrite of Ammonia?	5, 260	paration of, on	
" Nickel	5, 396	the small scale	7, 457
" Potash	5, 265	" Silver	8, 31
" Soda	5, 271	" Sodium	7, 478
Ferrocyanide of Aluminium	7, 486; 13, 408	" Strontium	7, 482
" Barium	7, 480	" Tantalum	7, 487
" Barium and Po-		" Thorium	7, 486
tassium	7, 481	" Titanium	7, 486
" Calcium	7, 482	" Yttrium	7, 486
" Calcium and		" Zinc	7, 489
Potassium	7, 484	Zinc, with Am-	
" Cerium	7, 486	monia	7, 490
" Cobalt	7, 496	Ferrocyanides	7, 432
" Copper and		" double	10, 503
Potassium	7, 10	" metallic, electro-	
" Cupric	8, 8	lysis of	1, 456
" Cuprous	8, 8	" solubility of, in	
" Ethylic	9, 353	alcohol	8, 273
" Ferric	7, 437	Ferroprussiate of Potash	7, 453
" of Glucinum	7, 486	Ferroprussiates	7, 432
" Iron and Potas-		Ferroprussic acid	7, 429
sium	7, 474	" red	7, 449
" Lead	7, 490	Ferroso-aluminic Sulphate	5, 276
" Magnesium	7, 484	" -ammonic Carbonate	5, 260
" Magnesium and		" " Chloride	5, 263
Ammonium	7, 485	" " Phosphate	5, 260
" Magnesium and		" " Sulphate	5, 261
Potassium	7, 486	" -cupric Sulphate	5, 492
" Manganese	7, 488	" -ferric Acetate, use of, for	
" Manganese and		steeping wood	7, 113
Potassium	7, 488	" " Arseniate	5, 306
" Nickel	7, 499	" " Oxide	5, 190
" Potassio-cupric	12, 498	" " Pyrogallate	11, 402
" Potassio-cuprous	12, 497	" " Salts	5, 194
" of Potassium and		" " Tartrate	10, 315
Ammonium	10, 503	" -ferrico-magnesian Sul-	
" Potassium, com-	12, 496	phate	5, 274
binations of	7, 467	" -magnesian Carbonate	5, 274
" Potassium, de-		" -manganous Phosphate....	5, 301
compositions of	7, 457	" -niccolic Sulphate	5, 397
" Potassium, crys-		" -potassic Chloride	5, 271
tallised	7, 467	" " Fluoride	5, 271
		" " Sulphate	5, 268
		" -sesquicyanide of Potas-	
		sium	7, 468

Ferroso-sodic Pyrophosphate	5, 272	Ferrous Selenite	5, 247
„ -zincic Sulphate ..	5, 314	„ Silicate	5, 278
„ -zincic-ammoniac Sulphate	5, 314	„ Suberate	13, 211
Ferrous Acetate	5, 320	„ Succinate	10, 126
„ Aluminate	5, 275	„ Sulphantimoniate	5, 311
„ Antimonate	5, 310	„ Sulphantimonite	5, 311
„ Antimonite	5, 310	„ Sulpharseniate	5, 309
„ Apocrenate	17, 470	„ Sulpharsenite	5, 309
„ Arsenate	5, 305	„ Sulphate	5, 237
„ Arsenite	5, 304	„ Sulphate, Electrolysis of	1, 463
„ Benzoates	12, 42	„ Sulphide	5, 228
„ Bitungstate	5, 296	„ Sulphite	5, 236
„ Borate	5, 222	„ Sulphocarbonate	5, 245
„ Bromide	5, 250	„ Sulphocyanide	12, 499
„ Carbonate	5, 219	„ Sulphocyanides	8, 88
„ Chelidonate	12, 420	„ Sulphomolybdate	5, 297
„ Chloride	5, 251	„ Sulphophosphite	5, 246
„ Chloroplatinate	6, 337	„ Sulphotellurite	5, 312
„ Chrysammate	12, 6	„ Sulphotungstate	5, 297
„ Citrate	11, 457	„ Tannate	15, 469
„ Crenate	17, 468	„ Tantallite	5, 292
„ Croconate	10, 393	„ Tartrate	10, 313
„ Cyanate	8, 68	„ Tellurate	5, 312
„ Cyanide	7, 432	„ Tellurite	5, 312
„ and Ferric Cyanides, hy-		„ Titanate	5, 289
drated compounds of	7, 434	„ Tungstate	5, 294
„ Ferricyanide	7, 435	„ Valerate	11, 35
„ Formiate	7, 280	„ Vanadate ?	5, 298
„ Hydrate	5, 187	Ferruginous Epidote	3, 430
„ Hydriodate	5, 248	„ Zinc-spar	5, 16
„ Hydrobromate	5, 250	<i>Ferula Asafetida</i> , resin of	17, 398
„ Hydrochlorate	5, 252	<i>Ferrum</i>	5, 182
„ Hydrofluante	5, 256	Ferruretted Hydrogen Gas ?	5, 201
„ Hydrosulphate	5, 230	<i>Ferula Opoponax</i> , resin of	17, 427
„ Hyposulphate	5, 236	„ <i>Persica</i> , resin of	17, 428
„ Hyposulphite	5, 235	Feuillin	18, 225
„ Hyposulphosphite	5, 246	Feverfew oil	14, 369
„ Iodate ?	5, 249	Fibm, alleged formation of, from	
„ Iodide....	5, 247	defibrinated blood-serum by	
„ Iodoplatinate	6, 337	contact with oxygen, or by	
„ Lactate	11, 490	electrolysis	18, 323
„ Mellitate	10, 9	Fibrm, combination of, with tan-	
„ Mucate	11, 508	nic acid	18, 330
„ Niccolate	5, 396	„ composition of	18, 324
„ Nitrate	5, 257	„ constitution of, according	
„ Oxalate	9, 156; 13, 526	to Bouchardat	18, 323
„ Oxide	5, 187	„ dissolved in dilute hydro-	
„ Oxide with Chromic		chloric acid, action of	
„ Oxide	5, 298	„ yeast upon	18, 327
„ Perchlorate	5, 256	„ of gluten	18, 441
„ Periodate	5, 250	„ insolubility of, in alcohol	18, 330
„ Persulphomolybdate	5, 298	„ of maize	18, 441
„ Phosphate	5, 224	„ modified	18, 321
„ Phosphite	5, 223	„ occurrence of, in blood	18, 319
„ Pyromucate	10, 385	„ oxidation of	18, 324
„ Pyrophosphate	5, 225	„ preparation and pro-	
„ Pyrotartrate	11, 95	„ perties of	18, 323
„ Racemate	10, 357	„ putrefaction of	18, 327
„ Salts, general properties of	5, 188	„ pure	18, 321

- Fibrin, reaction of, with acetic acid . . 18, 326
 „ reaction of, with ammonia . . 18, 327
 „ reaction of, with chlorine-water . . 18, 325
 „ reaction of, with citric acid . . 18, 327
 „ reaction of, with ferrocyanide of potassium . 18, 329
 „ reaction of, with hydrochloric acid . . 18, 326
 „ reaction of, with nitric acid . . 18, 326
 „ reaction of, with peroxide of hydrogen . . 18, 325
 „ reaction of, with platino-cyanide of potassium . . 18, 329
 „ reaction of, with oil of vitriol . . 18, 325
 „ reaction of, with potash . . 18, 327
 „ reaction of, with tartaric acid . . 18, 327
 „ reactions of, with lead, copper, mercury, and silver salts . . 18, 329
 „ reactions of, with neutral salts of alkali-metal . 18, 328
 „ reactions of, with water . . 18, 325
 „ soluble 18, 320
 „ vegetable 18, 423, 451
 Fibrinogenous substance . . 18, 319, 322
 Fibrinoplastic substance . . 18, 271, 319
 Fibro-cartilage, glutin obtained from 18, 353
 Fibroin 18, 363
 Fibroferrite 5, 243
 Fibrolite 3, 413
 Fibrose 15, 126, 144
 Fibrous manganese 4, 203
 Ficarin 18, 226
 Fichtelite 18, 246
Ficus rubiginosa, occurrence of syccocerylic acetate in the resin of 17, 43
 Figures of Widmanstadt . . 1, 19
 Filhol's calculations respecting the relations between density and atomic weight . . 1, 39
 Filicates 16, 127
 Filimelisisulphates 15, 27
 Filipelosic Acid 15, 25
 Filizoleic acid 17, 74
 Fine-leaved Water-drop, oil of . . 14, 404
 Fire 1, 181
 „ hypothetical principle of . . 1, 167
 „ damp 7, 249
 „ -extinguishing substances . . 2, 35
 „ -syringe 1, 301
 Fish, phosphorescence of putrefying 7, 104
 Fishes, electric 1, 429
 Fish-oils 16, 321
 Fishes, phosphorescence of . . 1, 182
 Fixed or non-volatile bodies . . 1, 257
 Flame, brightness or illuminating power of . . 2, 29
 „ colour of 2, 30
 „ electric conducting power of 1, 312
 „ extinction of 2, 33
 „ of organic bodies, diamagnetic properties of . 1, 517
 „ production of 2, 28
 Flavequisetin 16, 517
 Flavindic acid 13, 91
 Flavindin 13, 91
 Flavine 12, 166
 Flax, action of nitric acid on . . 15, 136
 Fleitmann and Henneberg's phosphates 2, 134
 Fleitmann and Henneberg's phosphates of silver . . 6, 151
 Flesh, preparation of creatinine from 10, 257
 „ preparation of creatine from 10, 250
 „ preparation of leucine from 11, 427
 Flint 3, 352
 „ -glass 3, 380; 5, 166
Flores benzoes 12, 32
 „ *salis ammoniaci martiales* 5, 264
 „ *zinci* 5, 5
 Flower-buds, undeveloped, green colouring matter of . . 17, 7
 Flowers, alteration of colour of, by exposure to light . . 1, 170, 171
 „ of benzoin 12, 32
 „ blue colours of 16, 522
 „ effect of sunshine on the colours of 7, 95
 „ of lead 5, 108
 „ resin of 16, 513
 „ of sulphur 2, 156
 „ violet colouring matter of 16, 523
 „ yellow of 16, 513
 „ yellow, sudden emission of light by 1, 187
 „ of zinc 5, 5
 Fluavil 17, 343
 Fluids formed by combination of heat with ponderable bodies . . 1, 252
 Fluoborate of Ammonia 2, 489
 Fluoboric acid 2, 363
 „ ether 8, 171

Fluoboric gas	2, 362	Fluoride of Chromium. . . .	4, 137
Fluoboride of Calcium ..	3, 213	" Cobalt	5, 337
" Potassium	3, 65	" Cobalt and Ammo-	5, 342
" Sodium	3, 116	" nium	5, 342
" Yttrium	3, 290	" Cobalt and Potas-	5, 344
Fluopalladite of Potassium ..	6, 354	" sium	5, 344
" Sodium	6, 355	" Copper	5, 442
Fluoplatinate of Ammonium ..	6, 310	" Copper and Potas-	5, 461
" Potassium	6, 323	" sium	5, 461
" Sodium	6, 326	" Ethyl ?	8, 382
Fluorapatite	3, 219	" Ferrico-potassic ..	5, 271
Fluoric acid, <i>see</i> Hydrofluoric		" Ferroso-potassic ..	5, 271
acid	2, 360	" of Glucinum	3, 300
Fluoride of Aluminum ..	3, 317	" Glucinum and Po-	3, 302
" Aluminum with Alu-		" tassium	3, 302
" mina	3, 317	" Hydrogen	2, 260
" Aluminum and Cop-		" Hydrogen and Po-	3, 65
" per	5, 464	" tassium	3, 65
" Aluminum with Hy-		" Hydrogen and So-	3, 116
" drofluat of Am-		" dium	3, 116
" monia	3, 320	" Iron	5, 256
" Aluminum and Iu-		" Lead	5, 151
" thium	3, 327	" Lead with Lead	5, 158
" Aluminum and Nick-		" nitrate	5, 158
" el	5, 386	" Lithium	3, 131
" Aluminum and Po-		" Lithium and Boron	3, 131
" tassium	3, 324	" Lithium and Hydro-	3, 131
" Aluminum and So-		" gen	3, 131
" dium	3, 326	" Magnesium	3, 243
" Aluminum and Zinc		" Magnesium with Si-	3, 401
" ammonium	2, 488	" licate of Magnesia	3, 401
" Antimony	4, 371	" of Manganese	4, 230
" Arsenic	4, 286	" Manganese and Po-	4, 238
" Barium	3, 161	" tassium	4, 238
" Barium with Chlo-		" Manganese and So-	4, 240
" ride of Barium	3, 166	" dium	4, 240
" Bismuth	4, 440	" Mercuric	6, 66
" Boron	2, 362	" Mercurous	6, 66
" Boron, solubility of,		" of Methyl	7, 290
" in alcohol	8, 265	" Nickel	5, 379
" Boron, sulphate of		" Nickel and Ammo-	5, 384
" Cacodyl	9, 348	" nium	5, 384
" Cadmium	5, 61	" Nickel and Potas-	5, 385
" Calcium	3, 212	" sium	5, 385
" Calcium, action of		" Phosphorus	2, 364
" oxalic acid on	13, 515	" Platinum	6, 296
" Calcium with Cupric		" Potassium	3, 64
" Sulphate	5, 463	" Potassium with Ses-	3, 64
" Calcium with Sul-		" quifluoride of Chro-	4, 151
" phate of Baryta		" mium	2, 365
" and Chloride of		" Selenium	2, 365
" Barium	3, 219	" Silicium	3, 362
" Calcium with Sul-		" Silicium, absorption	7, 167
" phate of Lime	3, 220	" of, by liquid vola-	7, 167
" Calcium with Sul-		" tile oils	7, 167
" phide of Barium	3, 218	" Silicium, solubility	8, 269
" Calcium with Sul-		" of, in alcohol	8, 269
" phide of Calcium	3, 220	" Silicium and Ammo-	3, 368
" Cerium	3, 271	" nium	3, 368

Fluoride of Silicium and Barium	3, 387	Fluoride of Titanium and Mag-	
" Silicium and Cal-		nesium	3, 487
" cium	3, 393	" Titanium and Potas-	
" Silicium and Chro-		sium	3, 485
" mium	4, 156	" Titanium and So-	
" Silicium with Si-		dium	3, 486
" licate of Alu-		" Tungsten	4, 37
" mina	3, 419	" Tungsten and Am-	
" Silicium and Gluci-		monium	4, 38
" num	3, 410	" Tungsten and Potas-	
" Silicium and Li-		sium with Tungs-	
" thium	3, 387	" tate of Potash . .	4, 46
" Silicium and Magne-		" Tungsten and So-	
" sium	3, 400	" dium with Tungs-	
" Silicium with Nitric		" tate of Soda . . .	4, 47
" Oxide, &c. . . .	3, 368	" Uranium	4, 182
" Silicium and Potas-		" Vanadium and Po-	
" sium	3, 374	" tassium	4, 100
" Silicium and Silver		" Vanadium and So-	
" dium	6, 182	" dium	4, 101
" Silicium and So-		" Yttrium	3, 289
" dium	3, 386	" Yttrium and Potas-	
" Silicium and Stron-		" sium	3, 290
" tium	3, 388	" Zinc	5, 33
" Silicium and Ytt-		" Zinc and Potas-	
" rium	3, 410	" sium	5, 44
" Silicium and Zirc-		" Zirconium	3, 346
" onium	3, 463	" Zirconium and Po-	
" Silver	6, 168	" tassium	3, 348
" Sodium	3, 115	Fluorides, compounds of, with	
" Sodium, luminous		double silicates . . .	3, 461
" appearance accom-		" metallic	2, 365
" panying the crys-		" of metals and hy-	
" tallisation of . .	1, 208	" drogen	2, 366
" Sodium with Sesqui-		Fluorine	2, 358
" fluoride of Chro-		" compounds of, with	
" mium	4, 152	" nuclei	7, 212
" Sodium with Silica		" -salts	2, 367
" Strontium	3, 179	Fluor-spar	3, 212
" Sulphur	2, 364	" with Sulphate of	
" Tantalum	4, 8	" Lead	5, 164
" Tantalum and Am-		" with Sulphate of	
" monium	4, 9	" Strontia	3, 219
" Tantalum and Lead		Fluosilicic alcohol, reaction of	
" Tantalum and Po-		with Quinine	17, 284
" tassium	4, 10	Fluotellurate of Sodium . . .	4, 422
" Tantalum and So-		Flux, Baume's quick	3, 69
" dium	4, 11	" black	3, 20
" Tellurethyl	8, 387	" white	3, 20
" Tellurium	4, 418	<i>Fluxus albus</i>	3, 20
" Thorium	3, 335	" <i>niger</i>	3, 20
" Thorium and Po-		Fly-poison	4, 249
" tassium	3, 336	Foliated Earth of Tartar . .	3, 297
" Tin	5, 92	" Tellurium	6, 245
" Titanium	3, 482	Food, purple colouring matter	
" Titanium and Am-		sometimes occurring on mouldy	
" monium	3, 484	articles of	18, 421
" Titanium and Cal-		Force, chemical	1, 33
" cium	3, 487	" magnetic lines of . .	1, 168
" Titanium and Lead			
" 5, 166			

Forced precipitation resulting from decomposition	1, 135	Formonetin	17, 565
Forces to which all bodies are subject	1, 1	Formosal	9, 41
Form of atoms, theories respecting	1, 146	Formulae, chemical	1, 60
„ crystals, how modified	1, 112	„ of organic compounds	7, 8
Formanilide	11, 300	Formyl-biphenylbiamine	13, 400
Formaniline	11, 300	„ Chloride of (so called)	9, 196
Formation of chemical compounds	1, 35—111	Formyl, Perchloride	7, 342
Formelepidine, <i>see</i> Methyl-lepidine.		„ Perchloride of (so called)	9, 199
Formemylaniline	11, 331	Formylha	13, 485
Formevinaniline	11, 307	Formyl-naphthalide?	14, 117
Formevinemylaniline	11, 332	Fornacite	3, 421
Formiate of Ammonia with Cyanide of Mercury	8, 26	Fossil Caoutchouc	17, 436
„ Amyl	11, 66	„ Resins	17, 430
„ Bichlorovinic	9, 231	Fox-fat	16, 391
„ of Butyl	10, 108	„ -glove, preparation of Digitalin from	16, 331
„ Chloroline	13, 252	„ -glove leaves, preparation of Digitalin from	16, 328
„ Chloromethylc	7, 309	Frangulin	16, 76
„ Chlorovinic	9, 229	Frankincense	17, 427
„ of Cinchonidine	17, 227	Frankinite	5, 313
„ Cinchonine	17, 216	Fraxetin	16, 278
„ Ethyl	8, 482	Fraxin	15, 343; 16, 279
„ Ethyl, tribasic	9, 360	Freezing mixtures	1, 297—299
„ Methyl	7, 309	„ point	1, 253
„ of Morphine	16, 433	„ temperature, effect of, in preventing fermentation and putrefaction	7, 100, 116
„ Perchloromethylc	9, 235	Freiberg method of amalgamation	6, 134
„ Perchlorovinic	9, 233	Frémey's Acid Meta-antimoniate of Potash	4, 377
„ of Potash with Cyanide of Mercury	8, 26	„ Acid Meta-antimoniate of Soda	4, 382
„ of Quinine	18, 289	„ Chitin	15, 415
„ Solanine	18, 27	„ Metastannate of Potash	5, 96
„ Stannethyl	9, 99	„ Neutral Meta-antimoniate of Potassium	4, 376
„ Stannethylethylum	13, 502	„ Ordinary Antimoniate of Ammonia	4, 372
Formates, metallic	7, 277	French into English Measures and Weights, tables for converting	2, 497
Formic acid	7, 268	French method of purifying salt-petre	1, 14
„ aqueous	7, 276	Friction, electricity produced by	1, 324
„ compound of, with Mannite	15, 374	<i>Fronde</i> <i>Thuyæ</i> , preparation of Thujin and Thuygenin from	16, 242
„ copulated acid produced by, with Bitter Almond Oil	7, 227	Fruit, preparation of Dextro-glucose from various kinds of,	15, 311
„ expansion of, by heat	1, 231	Fruits, Cane-sugar in	15, 240
„ preparation of, from oxalic acid	12, 478	„ preparation of Cane-sugar from	15, 243
„ production of, from Carbonic Oxide	10, 490	„ Tannic acid from	15, 519
„ relative position of atoms in	7, 37	„ wax of	18, 157
„ solubility of, in alcohol	8, 273	„ -sugar	15, 305; 16, 335
Formic Ether	8, 482	Fuch's soluble glass	3, 371
„ Chlorocyanide of?	8, 492	„ theory of Amorphism	1, 103
Formbenzoic acid	12, 57		
Formomethylal	7, 311		

Fuchsite	3, 450	Fumarate of Magnesia	10, 27
Fucusamide	10, 376	„ Mercuric	10, 31
Fucusine	10, 382	„ Mercurous	10, 30
Fucosol	10, 373	„ of Nickel	10, 30
<i>Fulgora</i> , phosphorescence of	1, 185	„ Potash	10, 26
Fulminate of Copper	9, 300	„ Silver	10, 31
„ Copper and Ammonium	9, 300	„ Soda	10, 26
„ Copper and Potassium	9, 300	„ Strontia	10, 27
„ Mercury	9, 300	„ Zinc	10, 28
„ Silver	9, 303	Fumaric acid	10, 22
„ Silver and Hydrogen	9, 309	„ Anhydride	10, 32
„ Zinc and Ammonium, &c	9, 298	„ Ether	10, 31
„ Zinc and Hydrogen	9, 297	Fumarine	18, 195
„ Zinc, neutral	9, 297	Fume, nature of	1, 288
Fulminates, constitution of	12, 551	Fumic acid	17, 476
„ formation of hydrocyanic acid, by decomposition of	7, 390	Fuming spirit of Libavius	5, 87
Fulminating Gold	6, 222	<i>Fune</i>	11, 184
„ Mercury	10, 540	Fungi, regarded as the prime movers in fermentation	7, 110
„ Platinum	6, 297	Fungic acid	10, 227
„ Silver, Berthollet's	6, 172	Fumidin	11, 338
„ Silver, double salts of	9, 308	Furnace Calamine	5, 10
„ Zinc, double salts of	9, 298	„ slags composed of silicate of magnesia and lime	3, 401
Fulminic acid	9, 295	Furfene	10, 370
„ constitution of	12, 551	Furfuramide	10, 376
„ relation of, to Chloropicrin and Acetonitrile	12, 553	Furfurine	10, 377
Fulminurate of Ammonia	10, 558	„ Acetate	10, 381
„ Ammonio-cupric	10, 560	„ Chloroplatinate	10, 381
„ of Baryta	10, 560	„ Hydrochlorate	10, 380
„ Ethyl	10, 561	„ Mellitate	10, 382
„ Lead	10, 560	„ Metaphosphate?	10, 379
„ Lime	10, 560	„ Nitrate	10, 380
„ Lithia	10, 560	„ Oxalate	10, 381
„ Magnesia	10, 560	„ Perchlorate	10, 380
„ Mercury	10, 561	„ Phosphate	10, 378
„ Potash	10, 558	„ Pyrophosphate	10, 379
„ Silver	10, 561	„ Sulphate	10, 380
„ Soda	10, 560	„ Tartrate	10, 382
Fulminuric acid	10, 556	Furfurol	10, 370
Fumaramide	10, 38	Fused bodies, table of Specific Heats of (Person)	1, 255
Fumarate of Baryta	10, 26	Fusel-oil	11, 9
„ Cobalt	10, 29	„ Caprylic acid in	13, 190
„ Cupric	10, 30	„ Fatty acids in	13, 387
„ Ferric	10, 29	„ preparation of valerianic acid from	11, 26
„ of Lead	10, 28	Fusibility of compounds	1, 103
„ Lime	10, 27	Fusible metal, Rose's	5, 180
„ Manganese	10, 28	„ White Precipitate	5, 87
		Fusion, amorphous bodies produced by	1, 103
		„ of salts, aqueous and igneous	2, 64

G.

Gadolinite	3, 409	Galic Acid, colours produced in alkaline solutions of, by the action of oxygen	12, 401
„ preparation of Yttria from	3, 283	„ Acid, reaction of, with Iron salts	12, 403
<i>Gadus Morrhua</i> , oil from the liver of	16, 323	Gall-nuts, preparation of tannic acid from	15, 453
Gaëdinate, metallic	16, 320	„ -nuts, occurrence of tannic acid in	15, 450
Gaëdic acid	16, 319	Gallotannic Acid, <i>see</i> Tannic Acid:	
„ ether	16, 320	Gallotannin	15, 344
<i>Galacticum Bertholletii</i>	15, 217	Galls, infusion of, reaction with tellurium salts	15, 467
Galactin	18, 318	Gallstone of an ox, green pigment from	18, 80
<i>Galactodendron utile</i> , resins from the milk of	17, 351	„ -stones, preparation of Bili-rubin from	18, 71
Galanga, oil	14, 369	„ -stones, preparation of Cholesterylin from	18, 111
„ root, Kaempferide obtained from	18, 280	Gallulmic Acid, <i>see</i> Metagallic Acid.	
Galbanum	17, 618	Galvani, his electrical discoveries	1, 6
„ blue oil of	17, 238	Galvanic batteries	1, 410
„ mother-resin of	17, 240	„ batteries, conditions which determine the quantity and tension of the current of	1, 413—418
„ resin	17, 239	„ batteries, consisting of one metal and two or three liquids	1, 423
„ volatile oil of	17, 240	„ batteries of one metal and one liquid	1, 427
Galena	5, 132	„ batteries opposed, effects of	1, 434
Gale oil	14, 369	„ batteries with two metals and one liquid	1, 424
<i>Galipea officinalis</i> , bitter from the bark of	18, 226	„ batteries with two metals and two liquids	1, 421
<i>Galipea officinalis</i> , volatile oil from the bark of	14, 357	„ battery, materials of	1, 419
Galutannic acid	15, 519	„ battery, movements of mercury in the circuit of	1, 436
<i>Galum Mollugo</i> , Aspertannic acid from	15, 513	„ battery, polar conductors or wires of	1, 431
<i>Galum verum</i> and <i>G. aparine</i> , rubichloric acid in	16, 66	„ circuit, Bucholzian	1, 397
Gallactic Acid	15, 229	„ circuit, effect of partitions or interposed plates in	1, 478
Gallamic Acid	12, 435	„ circuit, simple, development of heat in the exciting cell of	1, 494
Gallate of Alumina	12, 408	„ circuit, simple, formed of metals with certain fused substances	1, 375
„ Ammonia	12, 405	„ circuit, simple, formed of one metal and one liquid	1, 384
„ Antimony	12, 409		
„ Baryta	12, 406		
„ Bismuth	12, 409		
„ Cobalt	12, 410		
„ Copper	12, 410		
„ Iron	12, 410		
„ Lead	12, 410		
„ Lime	12, 406		
„ Magnesia	12, 407, 408		
„ Manganese	12, 408		
„ Mercuric	12, 411		
„ Mercurous	12, 411		
„ of Nickel	12, 411		
„ Potash	12, 405		
„ Soda	12, 405		
„ Stannous	12, 409		
„ of Strontia	12, 406		
„ Urea	18, 456		
„ Zinc	12, 409		
Gall-bladder, mucus of	18, 345		
Gallic Acid	12, 396		

- | | | | |
|---|--------|---|---------|
| Galvanic circuit, simple, formed of one metal and two liquids . . . | 1, 397 | Galvanic circuit, simple, formed of two metals with water | 1, 345 |
| „ circuit, simple, formed of three metals and one liquid . . . | 1, 404 | „ circuit, simple, with two metals and two separated liquids . . . | 2, 403 |
| „ circuit, simple, formed of two liquids and three metals . . . | 1, 408 | „ circuit, simple, formed of two metals and one liquid . . . | 1, 341 |
| „ circuit, simple, formed of two metals with aqueous ammonia . . | 1, 364 | „ circuit, simple, formed of two metals and three liquids . . . | 1, 396 |
| „ circuit, simple, formed of two metals with aqueous solutions of alkaline salts . . . | 1, 364 | „ circuit, simple, formed of two metals and two liquids . . . | 1, 389 |
| „ circuit, simple, formed of two metals with aqueous solutions of heavy metallic salts | 1, 366 | „ circuit, simple, formed of two metals and two separated liquids . . . | 1, 405 |
| „ circuit, simple, formed of two metals with aqueous potash or soda | 1, 363 | „ circuit, simple, formed of two metals, with zinc and tin salts . . | 1, 367 |
| „ circuit, simple, formed of two metals with aqueous sulphuret of potassium . . . | 1, 373 | „ circuit, simple, instruments consisting of . . | 1, 408 |
| „ circuit, simple, formed of two metals with concentrated hydrochloric acid . . | 1, 352 | „ circuit, simple, movements of mercury in circuits, simple, instruments formed by the union of several . . . | 1, 410 |
| „ circuit, simple, formed of two metals with copper salts . . . | 1, 367 | „ combinations, various, with three and four metals . . . | 1, 405 |
| „ circuit, simple, formed of two metals with dilute acids . . . | 1, 347 | „ decomposition, <i>see</i> Electrolysis. | |
| „ circuit, simple, formed of two metals with lead salts . . . | 1, 367 | „ precipitation of a thin layer of one metal on the surface of another | 1, 497 |
| „ circuit, simple, formed of two metals with mercury salts . . . | 1, 370 | Galvanism, technical applications | 1, 497 |
| „ circuit, simple, formed of two metals with oil of vitriol . . . | 1, 352 | „ theories of . . . | 1, 510 |
| „ circuit, simple, formed of two metals and one liquid in two separate vessels . . . | 1, 403 | Galvanometer . . . | 1, 317 |
| „ circuit, simple, formed of two metals and one liquid, which is unequally heated . . . | 1, 375 | Gambodie acid . . . | 17, 416 |
| „ circuit, simple, formed of two metals with silver salts . . . | 1, 370 | Gamboge . . . | 17, 416 |
| „ circuit, simple, formed of two metals with | | „ gum from . . . | 15, 205 |
| | | Gamma-quinidine . . . | 17, 295 |
| | | „ -quinine (Heijningen's) | 17, 273 |
| | | Garancin, preparation of alizarin from . . . | 14, 132 |
| | | <i>Garcinia Mangostana</i> , resin of | 17, 331 |
| | | Garden rue, preparation of rutin from . . . | 16, 500 |
| | | <i>Gardenia grandiflora</i> , jelly from from the fruits of . . | 15, 412 |
| | | „ <i>grandiflora</i> , preparation of chlororubin from the fruit of . . . | 16, 70 |
| | | Gardeniatic acid . . . | 15, 520 |
| | | Garlic oil . . . | 9, 372 |
| | | „ and Mustard oils, mixtures of . . . | 10, 56 |

Garnet	3, 426	Gases, regarded as formed by combination of heat with ponderable bodies	1, 252, 257
Gas, definition of, according to the atomic theory . .	1, 46	„ relation between the elasticity and density of .	1, 257
„ detonating	2, 45	„ relations between the density of compound, and that of their elements . .	1, 65
„ fluoboric	2, 362	„ relations between the specific gravities and atomic weights of	1, 53, 66
„ laughing	2, 373	„ saturated and unsaturated	1, 258
„ nitrous	2, 377	„ table of tension of	2, 503
„ or Vapour, situation in which its formation takes place . .	1, 272	„ weight of a litre of various	1, 280
„ -battery, Grove's . .	1, 428	Gaseous mixtures, theories respecting	1, 21
Gaseity, influence of, on combination	1, 36	Gas-holders	2, 23
Gases, absorption of, by water	2, 65	Gassendi	1, 4
„ calculation of the specific gravity of	1, 280	Gastric juice, solubility of proteides in	18, 263
„ collection and preservation of	2, 23	<i>Gaultheria procumbens</i> , methylosalicylic acid in	12, 255
„ compound, table of the atomic numbers, atomic weights, combining volumes, formulae, and specific gravities of . .	1, 66	Gaultheria oil, preparation of salicylic acid from	12, 247
„ condensable, maximum tensions of, at different temperatures . .	1, 260; 2, 503	Gaultheria	18, 226
„ development of light in, by compression	1, 205	Gaultherylene	14, 290
„ diffusion of	1, 20	Gay-Lussac's Alcoholometer . .	1, 11
„ effect of various, in hindering or stopping the action of platinum and other metals, on a mixture of hydrogen and oxygen	2, 53	„ formula for calculating the degree of cold produced by evaporation . .	1, 276
„ elasticity or tension of . .	1, 257	„ law of volumes	1, 6
„ expansion of, by heat . .	1, 224	Gay-Lussite	3, 216
„ heat-conducting powers of	1, 223	Geber	1, 3
„ inorganic, table of specific gravities of	1, 279, 280	Gedrite	5, 285
„ liquefaction and solidification of	1, 285	Gehlenite	3, 425
„ liquefaction or solidification of, produced by the affinity of ponderable bodies for the ponderable base of the gas . .	1, 289	Gelatin	15, 344
„ magnetic and diamagnetic conditions of	1, 516	„ animal	18, 353
„ monatomic, diatomic, and hexatomic	1, 53	„ of bones	18, 353
„ organic, calculation of the specific gravity of . .	7, 53	„ cartilage	18, 359
„ oxidation of, by platinum black	6, 280	„ coloration of blowpipe flame by	18, 257
„ produced by destructive distillation	7, 80	„ precipitation of, by tannic acid	15, 473
„ quantity of heat in . . .	1, 282	„ preparation of leucine from	11, 428
„ refractive power of . . .	1, 94	„ putrefaction of	7, 104
		„ of silk	18, 366
		„ vegetable	18, 445
		Gelatinous substances as ferments	7, 98
		Gelin	15, 209
		Gentian-bitter	16, 193
		Gentianates	16, 179
		Gentianic acid	16, 178
		Gentianin, <i>see</i> Gentianic acid	
		Gentiogenin	16, 192

- Gentise acid, *see* Gentianic acid.
 Gentisin, *see* Gentianic acid.
 Geocerain 17, 445
 Geocerie acid 17, 445
 Geocernone 17, 445
 Geocronite 5, 176
 Geoffroy 1, 4
 Geoffroyine 17, 316
 Geomyricin 17, 441, 18, 245
 Georetic acid 17, 414
 Geranium 18, 227
 Gerhardt's equivalents 7, 27
 " law of residues 7, 76
 " platinum-bases, and
 general theory of
 the ammoniacal
 compounds of pla-
 tinum 6, 313
 German Silver 5, 497
 Germs, vegetable, action of, in
 inducing fermentation 15, 265
 Getah Lahoe 18, 163
 Geum bitter 18, 227
Geum urbanum, oil of 14, 370
 Gibbsite 3, 307
 Gigantolite 3, 448
 Gilding by galvanic precipitation 1, 497
 Ginger oil 14, 370
 Ginkgoic acid 18, 82
 Gismondine 3, 445
 Glacial Acetic acid 8, 287
 " Phosphoric acid 2, 125
 Glauridin 18, 458
 Glarin 18, 458
 Glass 3, 377
 " action of oxalic acid on 13, 515
 " action of water on 2, 61
 " of antimony on 4, 360
 " containing arsenious acid 4, 311
 " containing platinous oxide 6, 331
 " crystallised 3, 384
 " decomposition of 3, 383
 " devitrified 3, 384
 " diffusion of gases through
 cracks in 1, 23
 " etching on, with fluorspar 2, 358
 " -fluxes coloured by gold 6, 235
 " -fluxes containing ferrous
 and ferric oxide 5, 288
 " -fluxes containing nickel 5, 386
 " heavy, optical properties
 of 1, 168
 " platinum deposits on 6, 275
 " heated, effect of, in indu-
 cing the combination of
 hydrogen and oxygen 2, 52
 " soluble 3, 371
 Glauber 1, 4
 Glauberite 3, 217
 Glauber's iron-tree 5, 283
 " salt 3, 100
Glaucium luteum, colouring mat-
 ter of the petals of 17, 163
 " *luteum*, preparation of
 chelerythrine from
 the roots of 17, 157
 Glaucine 17, 161
 Glaucolite 3, 437
 Glaucmelanate of Potash 15, 25
 Glaucopierne 17, 160
 Ghadin 18, 424, 445
 Globularenin 16, 83
 Globularin 15, 344; 16, 82
 Globularitanic acid 16, 83
 Globulin 18, 271
 " of blood-corpuscles 18, 332
 " of the crystalline lens 18, 330
 Glonoin 10, 562
 Glow 2, 28
 " -lamp 8, 179-210
 " -worm, phosphorescence of 1, 183
 Glucic acid 13, 237
 Glucina 3, 294
 " Acetate 8, 303
 " Aluminate 3, 329
 " Arsenate 4, 310
 " Benzoate 12, 40
 " Carbonate 3, 296
 " Chromate 4, 155
 " Cinnamate 13, 275
 " Citrate 11, 452
 " Croconate 10, 392
 " Hydrate 3, 295
 " Hyposulphite 3, 297
 " Nitrate 3, 300
 " Oxalate 9, 136
 " Phosphates 3, 297
 " Phosphite 3, 297
 " Pyrotartrate 11, 92
 " Rhodizonate 10, 402
 " Salts, reactions of 3, 295
 " Selenites 3, 298
 " Silicates 3, 410
 " Silicate of, with Silicate
 of Alumina 3, 420
 " Succinate 10, 122
 " Sulphates 3, 297
 " Sulphite 3, 297
 " Tartrate 10, 291
 " Valerate 11, 33
 " Vanadate 4, 102
 " and Ammonia, Carbonate
 of 3, 300
 " and Ammonia, Oxalate
 of 13, 520
 " and Lime, Silicate of 3, 411
 " and Manganous Oxide,
 Silicate of 4, 245

Glucina and Potash, Carbonate of	3, 301	Glucosides, special, description of	15, 414, 16, 102
„ and Potash, compound of	3, 300	„ yielding Alharin by their decomposition	16, 33
„ and Potash, Sulphate of	3, 301	Glucosuccinic acid	15, 333
„ and Soda, Carbonate of	3, 302	Glucotetratearates	15, 333
„ and Soda, compound of	3, 293	Glue, preparation of	18, 354
Glucinum	3, 293	Glutamic acid	18, 437
„ Alloys	3, 302	Gluten,	18, 447
„ Arsenide	4, 310	„ preparation of leucine from	11, 328
„ Bromide	3, 299	„ putrefaction of	7, 104
„ Chloride	3, 299	„ -casen	18, 439
„ Ferrocyanide	7, 486	„ -fibrin	18, 441
„ Fluoride	3, 300	Glutin, animal	18, 353
„ Iodide	3, 299	„ conversion of chondrin into	18, 359
„ Phosphide	3, 299	„ vegetable, syn. with Plant-gelatin	18, 445
„ Selenide	3, 298	Glycerides	9, 490, 13, 572
„ Sulpharsenite and Sulpharseniate	4, 310	„ classification of	7, 239
„ Sulphide	3, 297	„ combinations of	7, 244
„ Sulphomolybdate	4, 78	„ constitution of	7, 234
„ Telluride	4, 425	„ copulated nature of	7, 238
„ Tellurite and Tellurate	4, 425	„ decomposition of, at a red heat	7, 241
„ and Iron, alloy of	5, 274	„ decomposition of, by Chlorine, Bromine, and Iodine	7, 243
„ and Iron, Carbide of	5, 275	„ decomposition of, by oil of vitriol	7, 244
„ and Mercury, Chloride of	6, 109	„ dry distillation of	7, 240
„ and Potassium, Fluoride of	3, 302	„ formation of	7, 230, 16, 358
„ and Silicium, Fluoride of	3, 410	„ history of	7, 228
Glucohexatric acid	15, 344	„ isomeric, transformations of	7, 244
Glucosan	15, 329	„ literature of	7, 227
„ formation of Dextro-glucose from	15, 306	„ melting points of	7, 245
Glucose	15, 304	„ of polybasic acids	13, 580
„ Bistearic	17, 126	„ preparation and properties of	7, 230; 16, 358
„ compounds of, with Salifiable bases	15, 324	„ rapid combustion of	7, 243
„ estimation of	15, 313	„ reactions of	7, 231, 240; 16, 359
„ formation of, from Cane-sugar by the action of dilute acids	15, 537	„ slow combustion of	7, 241
„ formation of, from Cane-sugar by boiling with water	15, 253	„ solidifying points of	7, 245
„ formation of humous substance by action of alkalis on	17, 460	„ sources of	7, 280
„ hydrated	15, 323	„ yielding fixed acids, decompositions of	7, 240
„ ordinary, see Dextroglucose.		„ yielding volatile soap-acids, decompositions of	7, 240
Glucosides, formation of Dextro-glucose by decomposition of	15, 309	Glyceramine	13, 583
„ general view of	15, 341	Glycerates, metallic	13, 570
„ of Madder, compounds produced by decomposition of	16, 47	Glyceric acid	13, 568
		Glycerin	9, 486
		„ action of Acetyl-bromide on	13, 580

- Glycerin, action of the bromides
 of phosphorus on ... 13, 572
 „ aqueous, solubility of
 lime on ... 13, 568
 „ artificial formation of ... 13, 566
 „ conversion of, into
 sugar 13, 567
 „ compounds of, with
 acids ... 9, 490
 „ formation of Dextro-
 glucose from ... 15, 310
 „ formation of, in vinous
 fermentation ... 15, 275
 „ Monobenzoate of ... 12, 104
 „ production of, in alco-
 holic fermentation ... 13, 566
 „ salts .. 9, 490
 „ saponifiable fats yield-
 ing 7, 227
 „ Terbenzoate of ... 12, 105
 Glyceobitartaric acid . . 13, 582
 Glycerocitic acid ... 13, 583
 Glyceromonotartaric acid . 13, 581
 Glycerosuccinic acid . 13, 581
 Glycerotartaric acid ... 13, 582
 Glyceroxalic acid . 13, 581
 Glyceryl, Dibromochloride . 13, 578
 „ Bromodichloride . . 13, 578
 „ Terchloride 13, 577
 Glycerylene, Bichloride ... 13, 577
 Glycocol . . 9, 247
 „ compounds of, with
 acids 9, 251—254
 „ compounds of, with
 bases . . 9, 254—259
 „ copulated acid pro-
 duced by, with nitric
 acid . . 7, 226
 „ with Hydrochlorate of
 Berberine 17, 195
 „ with Urate of Am-
 monia ... 10, 468
 Glycocholates 13, 59
 Glycochohic acid 13, 56
 Glycocholonic acid . . 13, 62
 Glycogen ... 15, 138
 „ formation of Dextro-
 glucose from ... 15, 308
 Glycol 12, 501; 13, 422
 „ action of Antimonous
 chloride on . 13, 423
 „ action of Phosphorus
 Pentachloride on ... 13, 423
 „ action of Sodium on ... 13, 424
 „ action of Zinc Chloride
 on 13, 423
 „ Amylic ... 13, 557
 „ Bisodic ... 13, 424
 „ Butylic .. 13, 55
 Glycol, Monosodic ... 13, 424
 „ oxidation of ... 13, 422
 „ preparation of . . 13, 422
 Glycol, Propylic 13, 554
 Glycolamide 12, 511
 Glycolates . . 13, 436
 Glycolic acid .. 12, 508
 „ acid, formation of, from
 chloroacetic acid .. 13, 435
 „ Acetobutyrim . . 13, 433
 „ Biacetin . . 13, 433
 „ Bromhydrin ... 13, 428
 „ Butyroacetin .. 13, 433
 „ Chloroacetin . . 13, 43
 „ Chlorhydrin . . 13, 427
 „ Chlorobutyrim .. 13, 432
 „ Ethers 13, 424
 „ Iodacetin 13, 431
 „ Iodhydrin 13, 428
 „ Monoacetin .. 13, 429
 „ Stearate . . 17, 116
 Glycolide . . 12, 511
 Glycyl, Monobenzoate of . 12, 104
 „ Terbenzoate ... 12, 105
 Glycyrrhetin . . 17, 56
 Glycyrrhizin .. 15, 344; 17, 56
 Glyoxal . . 12, 503
 Glyoxylates . . 13, 434
 Glyoxylic acid 17, 505; 13, 434
 Gmelinite 3, 440
 Gmelin's Electro-chemical
 theory . . 1, 157
 „ method of calculating
 the densities of com-
 pounds ... 1, 76
 Goat's fat . . 18, 391
 Goemm . . 18,
 Gold . . 6, 200
 „ Acetate ... 8, 334
 „ Amalgam . . 6, 247
 „ Ammonio-protocyanide . . 8, 37
 „ Antimonide ... 6, 238
 „ argentiferous . . 6, 247
 „ Arsenide ... 6, 238
 „ atomic weight of 6, 205
 „ Benzoate . . 12, 45
 „ Bromides . . 6, 214
 „ Chlorides ... 6, 215
 „ Chryssammate 12, 7
 „ fulminating 6, 222
 „ in glass fluxes . . 6, 207, 235
 „ Iodides ... 6, 211
 „ leaf, effect of in inducing
 the combination of hydro-
 gen and oxygen 2, 52
 „ Mercaptide 8, 347
 „ Mosaic 5, 79; 5, 479
 „ Nitride? . . 6, 222
 „ -ores, amalgamation of . 6, 201

Gold Osride . . .	6, 423	Gold and Silicon, compound of	6, 235
„ Oxides . . .	6, 205	„ and Silver, alloys of	6, 247
„ Phosphide . . .	6, 210	„ Silver, and Copper, alloy of	6, 251
„ Protiodide . . .	6, 211	„ Silver, and Palladium, alloy of	6, 358
„ Protochloride . . .	6, 215	„ and Silver, amalgam of	6, 251
„ Protocyanide . . .	6, 34	„ and Silver, separation of	6, 201
„ Protosulphide . . .	6, 210	„ and Sodium, Sulphide of	6, 230
„ Protoxide . . .	6, 205	„ and Silver, Telluride of	6, 250
„ Purple oxide of	6, 206	„ and Tin, alloy of	6, 239
„ reactions of . . .	6, 209, 216	„ and Tungsten, alloy of	6, 237
„ removal of platinum from,		„ and Zinc, alloy of . . .	6, 239
by fusion with nitre	6, 203	Golden Sulphuret of Antimony	4, 354
„ salts, solubility of, in alcohol	8, 272	Gold-of-pleasure seed, oil of	16, 315
„ solution, ordinary . . .	6, 217	Gold-purple . . .	6, 239
„ Sulphides . . .	6, 210	Gomart oil . . .	14, 291
„ Sulphocacodylate . . .	9, 338	„ resin . . .	17, 415
„ Sulphocarbonate . . .	6, 211	Gong-gongs . . .	5, 482
„ Sulphocyanide . . .	8, 97	Goose-bile, preparation of tauro-	
„ Telluride . . .	6, 238	chenocholic acid from	18, 131
„ Terbromide . . .	6, 214	„ fat . . .	16, 391
„ Terchloride . . .	6, 215	<i>Gorteria ringens</i> , emission of	
„ „ acid solution of	6, 217	light by the flowers of	1, 187
„ „ compound of,		Gothite . . .	5, 197
with ethyl		Gourd-seed oil . . .	16, 315
cyanide . . .	13, 457	Graduating works . . .	3, 111
„ „ compound of, with		Graham's investigations on dif-	
methyl cyanide	13, 412	fusion of gases . . .	1, 20
„ „ normal solution		Gram tin . . .	5, 67
of . . .	6, 216	Grammatite . . .	3, 405
„ „ solution of, in		<i>Grana Paradisi</i> , resins of	17, 450
volatile oils . . .	7, 168	Granatin . . .	18, 227
„ Tercyanide . . .	8, 36	Grapes, preparation of Dextroglu-	
„ Teriodide . . .	6, 213	cose from . . .	15, 311
„ Teroxide . . .	6, 207	Grape-seed oil . . .	16, 314
„ Tersulphide . . .	6, 210	„ -skins, hard resin of blue	17, 453
„ and Ammonium, Iodide of	6, 225	„ sugar . . .	15, 305
„ and Bismuth, alloy of	6, 238	Graphic Tellurium . . .	6, 250
„ and Calcium, Cyanide of . .	8, 42	Graphite, artificial . . .	2, 83
„ and Cobalt, alloy of . . .	6, 246	„ in cast-iron . . .	5, 205
„ and Cobalt, Chloride of . .	6, 246	„ natural, occurrence of	2, 82
„ and Copper, alloy of . . .	6, 216	Graphitic acid . . .	14, 517
„ Copper, and Zinc, alloy of	6, 246	Grasses, sugar in the stems of	15, 239
„ and Copper, Cyanide of . .	8, 42	Gratiolaretin . . .	16, 465
„ and Iridium, alloy of . . .	6, 393	Gratiolotin . . .	16, 468
„ and Iron, alloy of . . .	6, 215	Gratiolin . . .	15, 345, 16, 466
„ and Iron, Carbide of . . .	6, 216	Gratiolonic acid . . .	16, 471
„ and Lead, alloy of . . .	6, 215	Gratioloretin . . .	16, 470
„ and Lead, Telluride of? . .	6, 245	Gratiolotin . . .	15, 345, 16, 469
„ and Manganese, alloy of . .	6, 237	Gratiolotin . . .	15, 345; 16, 468
„ and Molybdenum, alloy of	6, 237	Gravitation, influence of, on che-	
„ and Mercury of . . .	6, 217	mical decomposition . . .	1, 111
„ and Nickel, alloy of . . .	6, 246	Greeks, chemical knowledge of	1, 3
„ and Nickel, Chloride of . .	6, 246	Green colouring matter of this-	
„ and Palladium, alloy of . .	6, 358	tle-tops, artichokes, and	
„ and Platinum, alloy of . .	6, 339	undeveloped flower buds	17, 7
„ and Potassium, alloy of . .	6, 226	„ Ferrocyanide of Potas-	
„ and Potassium, Sulphide of	6, 227	sium . . .	7, 468
„ and Rhodium, alloy of . .	6, 368	Greenhartin . . .	16, 228

Greenheart tree, preparation of berberine from the bark of . . .	17, 170	Guano, preparation of Uric acid from . . .	10, 458
Green, imperial . . .	8, 329	Guarana, preparation of Caffeine from . . .	13, 227
„ Lead-ore . . .	5, 149	Guaranine . . .	13, 224
„ of leaves . . .	17, 3	Guayaquillite . . .	17, 437
„ Mitis . . .	8, 329	Guelder rose, bitter from the bark of . . .	18, 243
„ mountain . . .	8, 329	Guericke, his experiments on the vacuum . . .	1, 4
„ Neuwieder . . .	8, 329	Guibert . . .	1, 4
„ pigment from the gall- stone of an ox . . .	18, 80	Gum Ammoniacum . . .	17, 396
„ pigment from jaundiced urne . . .	18, 80	„ Anisé . . .	17, 396
„ Prussian . . .	7, 446	„ Arabic . . .	15, 194
„ salt of Magnus . . .	6, 304	„ Benzoin, preparation of Benzoic acid from . . .	12, 33
„ Schweinfurt . . .	8, 329	„ enumeration of various kinds of . . .	15, 196
„ Uranoso-uronic oxide . . .	4, 161	„ from gamboge . . .	15, 205
„ Vienna . . .	8, 329	„ from ipecacuanha root . . .	15, 205
„ Vitriol . . .	5, 237	„ -lac . . .	17, 419
Greenookite . . .	5, 57	„ from mangold-wurzel juice . . .	15, 205
Greenovite . . .	4, 245	<i>Gummi Caya</i> . . .	17, 404
Grey Copper . . .	5, 492	„ <i>elasticum</i> . . .	17, 344
„ Pig-iron . . .	5, 212	„ <i>Sicopra</i> , resin of . . .	17, 429
„ Sulphide of Antimony . . .	4, 337	Gum-resin of Sabadilline . . .	18, 185
Gros' Platine Sulphate . . .	6, 309—318	„ resins, extraction of vola- tile oils from . . .	7, 160
Grossulm . . .	15, 393	„ Senegal . . .	15, 197
Grotthuss' theory of decom- position by the electric cur- rent . . .	1, 432	„ -sugar . . .	16, 335
Groups of isomorphous bodies . . .	1, 88 to 91	„ Tragacanth . . .	15, 207
Grove's battery . . .	1, 422	Gun-cotton, <i>see</i> Pyroxylin . . .	15, 168
„ gas battery . . .	1, 423	„ -metal . . .	5, 482
Guacin . . .	18, 228	Gunpowder . . .	3, 69
Guaiaac Beta-resin . . .	17, 246	Gurgumic acid . . .	17, 545
„ resin . . .	17, 247, 618	Gutta . . .	17, 337
„ resin, effect of light on the colour of . . .	7, 96	Gutta-percha . . .	17, 340
„ yellow . . .	17, 216	„ -percha, electric insulating power of . . .	1, 313
Guaiaacene . . .	10, 411	Guyton de Morveau's table of decomposing affinities . . .	1, 140
Guaiac acid . . .	11, 397; 17, 252	Gymnotus, electric force of . . .	1, 429
Guaiacol . . .	17, 252	<i>Gypsophila Struthium</i> , prepara- tion of saponin from . . .	16, 85
Guaiacomic acid . . .	17, 155	Gypsum . . .	3, 201
Guaiaretic acid . . .	17, 241	„ burnt . . .	3, 200
Guairol . . .	17, 251	„ diffusion of gases through . . .	1, 24
Guanine . . .	10, 480	Gyrophoric acid . . .	16, 295
„ hydrate . . .	10, 480		
„ salts . . .	10, 481		
„ with Soda . . .	10, 482		
Guano, biliary acid from . . .	18, 69		

H.

Hæmatin . . .	16, 292	Hæmatin, action of sulphuric acid on . . .	18, 398
„ action of chlorine on . . .	18, 399	„ crystals, Rollat's . . .	18, 404
„ action of alkalis on . . .	18, 402	„ hydriodate of . . .	18, 400
„ action of heat on . . .	18, 397	„ hydrochlorate of . . .	18, 400
„ action of reducing agents on . . .	18, 397	„ non-ferruginous . . .	18, 398

Hæmatin, occurrence and preparation of	18, 395, 396	Hare's Calorimeter	1, 410
" occurrence of, in urinary concretions	18, 410	" Deflagrator	1, 409
" properties and composition of	18, 396	Hare's fat	16, 391
" reactions of, with metallic salts	18, 402	Harmala-red	16, 119
" Schwarz's	18, 403	Harmaline	16, 116
" see Hæmatoxylin.		" preparation of Harmaline from	16, 104
Hæmatite, brown	5, 197	Harmine	16, 106
" red	5, 194	" salts	16, 106
Hæmato-crystallin, see Hæmoglobin.		Harmonica, chemical	2, 58
Hæmatoglobulin, see Hæmoglobin.		Harmotome	3, 446
Hæmatoidin	18, 404	Hartin	17, 437
Hæmatosin	18, 395	Hartite	18, 250
Hæmatoxylin	16, 287	Hartmangan	4, 203
" amorphous	16, 288	Hartmannite	5, 393
" with Borax	16, 291	Hartshorn, spirit of	2, 423
" hydrated	16, 290	Hatschetin	18, 250
Hæmin crystals	18, 400	Hausmann's crystallographic nomenclature	1, 17
Hæmoglobin, action of hydro-sulphuric acid and alkaline sulphides on	18, 391	Hazel-nut oil	17, 97
" action of phosphoretted, arsenetted and antimonetted hydrogen on	18, 392	Heat, absorption of, accompanying vaporisation	1, 272
" compound of, with acetylene	18, 395	" alteration of, by irregular reflection	1, 216
" compound of, with carbonic oxide	18, 392	" capacity for	1, 238
" compound of, with nitric oxide	18, 393	" -capacity of the atoms of compounds	1, 246
" hydrocyanate of	18, 394	" -capacity of the atoms of elementary substances	1, 243
" occurrence of, in blood	18, 386	" -capacity of a vacuum	1, 252
" preparation of	18, 386	" chemical relations of	1, 252
" properties of	18, 397	" -collector of Saussure and Ducarchat	1, 165
" reduced	18, 390	" combinations of, with ponderable bodies	1, 252
" spectrum of	18, 389	" of combustion	1, 291
Hæmolutein	18, 413	" of combustion, whence derived	1, 297
Hahnemann's soluble Quick-silver	6, 91	" -conducting powers of liquids and gases	1, 223
Haidingerite	5, 311	" -conducting power of solids	1, 221
Hair, action of Acetic acid on	18, 350	" conduction of, in crystallised bodies	1, 222
" action of Chlorine, and of Sulphuric acid and peroxide of Manganese on	18, 349	" decomposition of organic compounds by	7, 77
" action of hot water on	18, 349	" developed by combination of the two electricities	1, 315
" composition of	18, 348	" development and absorption of, accompanying the solution of liquid and solid bodies in water	2, 69
Hales, his experiments on aeriform bodies	1, 4	" development and absorption of, from mechanical causes	1, 300
Halloyte	3, 417	" development of, accompanying adhesion-phenomena	1, 300
Haloforms	7, 24	" development of, accompanying crystallisation	1, 15
Haloïd salts	2, 15	" development of, in the	
Halydes	7, 23		

INDEX.

combination of compound bodies	1, 294	Heat, relations of chemi-	
Heat, development of, in the galvanic decomposition of liquids	1, 494	pounds to	9, 110
development of, by light	1, 165	" relative	1, 233
development of light by	1, 166	" specific, <i>see</i> Specific Heat	1, 238
development of, produced by mechanical alteration of density	1, 300	" spectrum	1, 165, 166, 180
disengagement and absorption of	1, 291	" table of the quantities of, evolved in the combination of combustible bodies with Oxygen	1, 292
disinfecting power of	7, 83	" transmission of	1, 214
effect of, in assisting eremacausis	7, 95	" of vaporisation	1, 232
effect of, on coloured fabrics	7, 96	" and light, cause of the development of, in combustion	2, 36
effect of, on the colours of bodies	1, 238	" and light, development of, in the combination of Oxygen with other bodies	2, 27
effect of, in inducing combustion	2, 24	" and light, relations between	1, 165
evolution of, accompanying eremacausis	7, 91	" and light, theories of the relations between	1, 167
evolution of, during putrefaction	7, 104	Heating power of different parts of the Solar Spectrum	1, 165
expansion produced by	1, 223	" powers, equal, of the two spectra formed by a prism of double-refracting spar	1, 166
free, sensible, or uncombined	1, 252	Heavy combustible or inflammable air	7, 249
homogeneous or monochromatic	1, 221	earth	3, 134
of incandescent platinum, decomposition of water by the	1, 301	glass, <i>see</i> Glass	-
influence of, on chemical combination and decomposition	1, 301	hydrochloric ether	8, 373
influence of, on chemical decomposition	1, 137	inflammable air	7, 249
influence of, on crystallisation	1, 8	metallic oxides	2, 39
interchange of, between bodies of different temperatures	1, 213	metallic oxides, hydrosulphates of	2, 227
latent, of liquids	1, 252	metals	3, 2
latent, of vapours	1, 232	oil of coal-tar	11, 135
memoirs relating to	1, 209	oil of wood-tar	15, 152
of moonlight	1, 166	oxygen-ether	9, 38
physical properties of	1, 212	-spar	151
polarization of	1, 221	Hebetine	5, 47
quantity of, in gases	1, 232	<i>Hedera Helix</i> , resin of	17, 415
quantity of, sent annually by the sun to the earth	1, 221	Hederic acid	15, 521
quantities of, evolved in the combination of different substances with chlorine	1, 294	Hederine	18, 195
radiant	1, 212	Hederitannic acid	15, 522
-rays, different refrangibility of	1, 213	Hedwigia, oil of	14, 371
rays, dispersion of	1, 165	Hedyphane	5, 150
		Helenene	17, 13
		Helenium	15, 112; 17, 522
		Helianthic, or Helianthotannic acid	15, 345, 522
		<i>Helianthus annuus</i> , emission of light by the flowers of	1, 187
		" <i>annuus</i> , oil from the seeds of	16, 315
		Helicin	15, 345, 439
		Helicoidin	15, 345, 441

GMELIN'S HANDBOOK OF CHEMISTRY.

Hæmatin, occurs .. 18, 127	Hippurate of Cinchonidine 17, 227
.....resin .. 18, 129	" Cinchonine .. 17, 219
Helleboretin .. 18, 128	" Ethyl .. 12, 81
Helleborin .. 18, 128	" Morphine .. 16, 436
<i>Helvella Mutra</i> , fatty oil ob- tained from 17, 97	" Strychnine .. 17, 504
Helvine .. 4, 245	" Urea 13, 406
" manganese in 4, 195	Hippurates, Metallic .. 12, 75—80
<i>Helvigia balsamifera</i> , Balsam obtained from .. 17, 394	Hippuric acid .. 12, 69
Hemibromhydrin .. 13, 576	" preparation of ben- zoic acid from .. 12, 35
Hemipnates, metallic ... 14, 431	Hippurobenzoate of Baryta .. 12, 77
Hemipimic acid .. 14, 430	Hircic acid .. 10, 89
" acid produced by the decomposi- tion of .. 14, 432	Hisingerite .. 5, 282
Hemlock, preparation of conine from .. 13, 160	Historical Survey of Chemistry . 1, 2—6
Hemp oil ... 16, 312	Hog's Lard .. 16, 391
" volatile oil of .. 14, 371	Holmesite .. 3, 462
Henbane-seed oil .. 16, 314	Homologous series, rise of boiling point in successive terms of .. 7, 55
Henomite .. 5, 276	Homburg .. 1, 4
<i>Hepar antimonii</i> .. 4, 355, 378, 383	Homburg's Phosphorus 1, 154, 3, 206
" <i>sulphuris calcareum</i> .. 3, 197	Honey, Cane-sugar in .. 15, 241
" " <i>salinum</i> , v. <i>al-</i> <i>calinum</i> .. 3, 35	" preparation of Dextroglu- cose from .. 15, 311
Hepatic air .. 2, 195	" -stone .. 10, 7
Hepatin, <i>see</i> Glycogen.	" -sugar .. 15, 305
<i>Heptacarbure quadrihydrique</i> .. 12, 226	Hop-bitter .. 18, 229
Heptasulphide of Ammonium .. 2, 453	Hops, oil of .. 14, 291
Heptylene, from Boghead Cannel coal .. 13, 386	" wax of .. 18, 160
Hesperidin .. 17, 547	Hordeic acid .. 15, 49
<i>Hesperis matronalis</i> , oil from the seeds of .. 16, 315	Horn, action of hot water on .. 18, 349
Hetepozite .. 5, 303	" action of nitric and sul- phuric acid on .. 18, 349
Heterocline .. 4, 244	" action of potash on .. 18, 349
Heulandite .. 3, 447	" dry distillation of .. 18, 349
Hexacetoglucose .. 15, 381	" preparation of Leucine from .. 11, 427
Hexachloracetone .. 13, 467	" preparation of Tyrosine from 13, 359
HexaglycERIC Bromhydrin .. 13, 576	Hornbeam wood, dry distillation of 15, 149
Hexatomic gas .. 1, 53	Hornblende .. 3, 405
Hexbenzomannitan .. 15, 380	Horneblendes rich in iron 5, 280
Hexbromanthracene .. 16, 169	Horn-lead .. 5, 145, 148
Hexhydrate of Cajputene .. 14, 513	" -quicksilver .. 6, 45
Hexnitrodecate .. 15, 388	" -silver .. 6, 162
Hexyl .. 11, 412	Horny tissue .. 18, 348
" from Boghead Cannel coal .. 13, 386	" action of acetic acid on .. 18, 350
" Alcohol .. 11, 413	" coloration of blow- pipe flame by .. 18, 257
" Hydrate 11, 413	Horse-chestnut bark, prepara- tion of Fraxin from .. 16, 280
Hexylene from Boghead Cannel coal .. 13, 386	" bark, prepara- tion of Aescu- lin from .. 16, 19
Higgin's Xanthin, preparation of .. 14, 136	" oil .. 17, 97
High-pressure Steam-engines, ad- vantage of 1, 259	" seeds, bodies obtained from .. 18, 32
Hipparaffin .. 12, 82	
Hippurate of Ammonia.... 12, 75	

Horse-chestnuts, preparation of saponine from	16, 86	Hydrargomethyl	9, 110
„ preparation of starch from	15, 77	Hydrargyllite	3, 307
Horse fat	16, 392	<i>Hydrargyrum</i>	6, 1
„ -radish oil	10, 54	Hydrastine	17, 543
Houseleek, preparation of malic acid from	10, 210	<i>Hydrastis canadensis</i> , preparation of berberine from the roots of	17, 186
Howard's Fulminating Mercury	9, 300	Hydrates	2, 5, 62
„ „ Silver	9, 303	Hydrate of Alizarin	14, 138
Huano-bark, preparation of Cinchonine from	17, 200	„ Alloxantin	10, 190
Human Fat	16, 392	„ Alumina	13, 306
„ caprylic acid in	13, 190	„ Amylene	13, 557
Humboldtite	3, 421	„ Antimonious acid	4, 329
Humic acid (Sprengel's)	17, 471	„ Asparagine	10, 244
Humic, action of caustic potash on	17, 465	„ Auric oxide	6, 209
„ action of chlorine on	17, 464	„ Baryta	3, 135
„ action of nitric acid on	17, 465	„ Bergamot-oil	13, 345
„ and Humic acid, formation of, from Cane-sugar	15, 255	„ Bismuthic acid	4, 433
„ -nitric acid	17, 465	„ Bismuth-oxide	4, 430
Humocrenic acid	17, 475	„ Bisuccinamide	10, 153
Humopic acid	16, 150	„ Bromal	9, 189
Humous acids of Russian Black earth (<i>Tschornosem</i>)	17, 473	„ Bromine	2, 276
„ substances from dung	17, 476	„ Butyl	10, 71
„ substances formed by the action of acids on cane-sugar	17, 462	„ Butylene	13, 556
„ substances in general	17, 458	„ Cadmic oxide	5, 54
„ substances from lignite	17, 476	„ Caffeine	13, 231
„ substances from peat, rotten wood, and vegetable mould	17, 471	„ Caputene	14, 512
„ substances from sugar, decomposition - products of	17, 464	„ Chinoline	13, 243
Humus-extract	15, 257; 17, 474	„ Chloral	9, 205
Hunt's Iodide of Silver Paper	1, 176	„ Chlorine	2, 293
<i>Hura crepitans</i> , resin from the milk of	17, 352	„ Chromic oxide	4, 112
Huralite	5, 303	„ Chromous oxide	4, 107
Hyacinth	3, 463	„ Cinabene	14, 320
<i>Hyænanche globosa</i> , poisonous substance from the husks of	18, 230	„ Citric acid	11, 442
Hyænates	18, 107	„ Cobaltic oxide	5, 337
Hyalin	18, 373	„ Cobaltous-oxide	5, 323
Hyalite	3, 355	„ Creatine	10, 254
Hyalosiderite	3, 395; 5, 278	„ Cresyl	12, 229
Hydanboic acid?	10, 264	„ Cupric oxide	5, 407
Hydrabietic acid	18, 8	„ Cuprous oxide	5, 405
Hydracids	2, 79	„ Ethylene	12, 501
Hydranzothin	3, 102, 273	„ Ethylene-strychnine	17, 513
Hydrargallyl	10, 544	„ Ferric oxide	5, 196
Hydrargamyl	11, 133	„ Ferroso-ferric oxide	5, 192
Hydrargethyl	10, 532; 9, 109	„ Ferrous oxide	5, 187
		„ Glucina	3, 295
		„ Glucose	15, 323
		„ Guanine	10, 480
		„ Iridic oxide	6, 373
		„ Iridious oxide	6, 371
		„ Laurel-oil	14, 266
		„ Lead-oxide	5, 113
		„ Lemon-oil	14, 300
		„ Lime	3, 182
		„ Magnesia	3, 223
		„ Manganic oxide	4, 203
		„ Manganoso-manganic oxide	4, 202
		„ Manganous oxide	4, 198

Hydrate of Mercuric oxide	6, 11	Hydrated Chloride of Bismuth	4, 439
„ Methylene ...	7, 256	„ Chloride of Cacodyl ?	9, 345
„ Methyl-salicyl	12, 255	„ Chloride of Magnesium and Potassium	3, 250
„ Molybdic oxide	4, 52	„ Chloride of Uranous oxide and Potassium	4, 189
„ Molybdous oxide	4, 50	„ Cupric oxyfluoride	5, 443
„ Nickel-oxide	5, 363	„ Fluoboride of Aluminium	3, 318
„ Nicotine ..	14, 226	„ Fluoboride of Barium	3, 162
„ Niobic acid	4, 17	„ Fluoboride of Silicium and Cobalt	5, 345
„ Octyl . .	13, 183, 387	„ Fluoride of Silicium and Nickel	5, 386
„ Oenanthol ..	12, 448	„ Fluoride of Titanium and Copper	5, 466
„ Osmic oxide ..	6, 407	„ Iodide of Palladium	6, 343
„ Osmious oxide ..	6, 406	„ Iodide ..	3, 435
„ Palladic oxide	6, 345	„ Monosulphide of Barium with Hydrate of Baryta	3, 143
„ Palladious oxide	6, 343	„ Oil of Bergamot	14, 282
„ Pelopic acid	4, 21	„ Oil of Cubebs	16, 271
„ Phenyl ..	11, 139	„ Oxide of Acetylum	10, 538
„ Platonic oxide	6, 283	„ Oxide of Amyl	11, 9
„ Platinous oxide	6, 281	„ Oxide of Ethyl	8, 194
„ Potash	3, 11	„ Oxide of Ethylstannethyl	9, 104
„ Propyl	9, 398	„ Oxide of Lanthanum	3, 277
„ Propylene	13, 554	„ Oxide of Tetramethylum	7, 320
„ Quinine	17, 273	„ Oxide of Stibethylum	10, 527
„ Rhodic oxide	6, 361	„ Oxide of Stibmethylum	7, 323
„ Silica	3, 356	„ Oxide of Tetrethylum	9, 66
„ Soda	3, 75	„ Oxide of Turpentine oil	14, 256
„ Stannic acid, ordinary	5, 74	„ Oxymchloride of Nickel	5, 378
„ Stannic acid, anomalous	5, 73	„ Oxyiodide of Nickel ?	5, 375
„ Stannous oxide	5, 69	„ Pentasulphide of Barium	3, 149
„ Strontia	3, 168	„ Pentasulphide of Calcium with Lime	3, 198
„ Strychnine - bromethylammonium	17, 513	„ Perbromide of Sodium	3, 110
„ Tantalac acid	4, 3	„ Peroxide of Nickel	5, 366
„ Telluric acid	4, 402	„ Protodide of Magnesium	3, 240
„ Thorina	3, 331	„ Protochloride of Copper	5, 439
„ Titanic acid	3, 475	„ Ruthenic oxide	6, 398
„ Turpentine-oil ..	14, 258	„ Selenide of Hydrogen and Calcium	3, 202
„ Uranic oxide	4, 168	„ Selenide of Zinc	5, 27
„ Uranoso-uranic oxide	4, 166	„ Sesquioxide of Iridium	6, 372
„ Uranous oxide	4, 161	„ Sesquioxide of Ruthenium	6, 397
„ Uric acid ?	10, 466	„ Sesquisulphide of Tin	5, 79
„ Vanadic oxide	5, 83	„ Silico-fluoride of Cadmium	5, 64
„ Yttria	3, 285		
„ Zinc-oxide ..	5, 11		
„ Zirconia	3, 342		
Hydrated Ammono-bichloride of Platinum	6, 306		
„ Bichloride of Platinum	6, 295		
„ Borate of Magnesia and Lime	3, 254		
„ Bromate of Mercuric oxide with Nitride of Mercury	6, 83		
„ Bromide of Magnesium and Potassium	3, 250		
„ Chloride of Aluminium with Alumina	3, 316		

Hydrated Stannous oxychloride	5, 87	Hydriodate of Caprylamine	13, 220
" Sulphide of Hydrogen and Calcium	3, 197	" Chlorogenine	18, 190
" Sulphide of Hydrogen and Magnesium	3, 235	" Cinaebene	14, 320
" Sulphide of Zinc	5, 20	" Cinchonine	17, 208, 610
" Telluric oxide	4, 398	" Cinchonine with cyanide of mercury	17, 214
" Tellurous acid	4, 398	" Cinchonine with mercuric chloride	17, 212
" Peroxide of Manganese	4, 206	" Cobalt-oxide	5, 335
Hydraulic Mortar	3, 389	" Codeine	17, 33
Hydric Sulphide	2, 195	" Cotarnine	16, 132
Hydride of Amyl	11, 6	" Cumidine	13, 350
" Anisyl	13, 120	" Ethylamine	9, 59
" Azoisnysyl	13, 145	" Ethylbrucine	17, 537
" Azobenzoyl	12, 191	" Ethylcodeine	17, 43
" Benzoyl	12, 18	" Ethylconine	18, 171
" Bismuth ?	4, 433	" Ethylmethyleconine	13, 173
" Bromocumyl	14, 165	" Ethylnicotine	14, 237
" Butyl	10, 69	" Ethylpyridine	10, 408
" Chlorocumyl	14, 166	" Ethylphthalidine	13, 35
" Cinnamyl	13, 253	" Ethylquinidine	17, 310
" Copper ?	5, 413	" Ethylquinine	17, 309
" Cumyl	14, 144	" Ethylstrychnine	17, 511
" Cyanobenzoyl	12, 212	" Ethyltoluidine	12, 340
" Ethyl	8, 163	" Ferrous oxide	5, 248
" Ethyl, its coefficients of absorption in water	13, 414	" Hamatin	13, 400
" Nitrobenzoyl	12, 119	" Harmaline	16, 118
" Enanthyl	12, 446	" Hydroberberine	17, 254
" Enanthyl (so called)	12, 450	" Lanthopine	13, 197
" Pentadecatyl	16, 534	" Laudanine	18, 198
" Potassium	3, 17	" Lophine	12, 201
" Quadrichlorocinnamyl	13, 298	" Manganic oxide	4, 226
" Rutyl	14, 489	" Manganous oxide	4, 226
" Salicyl	12, 235	" Melaniline	11, 354
" Silicium	3, 359	" Menaphthylamine	14, 126
" Suberyl	13, 203	" Mesitylene	9, 26
" Sulphanisyl	13, 131	" Metacrolein	13, 552
" Sulphobenzoyl	12, 168	" Methylamine	7, 316
" Ternitromethyl	12, 493	" Methylbrucine	17, 586
" Tetradecatyl	16, 533	" Methylcinchonidine	17, 233
" Tridecatyl	16, 532	" Methylcinchonine	17, 233
" Zinc	5, 13	" Methylconine	14, 235
Hydrides	7, 24	" Methylstrychnine	17, 508
Hydrindin	13, 89	" Molybdic oxide	4, 63
Hydriodate of Ammonia	2, 468	" Molybdous oxide	4, 63
" Aniline	11, 253	" Morphine	16, 431
Hydriodates of Antimonic oxide	4, 363	" Narcotine	16, 143
Hydriodate of Aricane	17, 570	" Nickel-oxide	5, 375
" Benzylene	12, 50	" Nitrohamaline	16, 124
" Berberine	17, 190	" Nitrohamine	16, 110
" Biethylconine	13, 173	" Papaverine	17, 259
" Biethyltolnidine	12, 341	" Phosphuretted Hydrogen	2, 265
" Brucine	17, 580		
" Capputene	14, 515		
" Caoutchouin	14, 329		

Hydriodate of Picoline	11, 268	Hydrobromate of Cinchonine,	
" Piperidine	10, 448	with cyanide	
" Platonic Iodide .	6, 292	of mercury	17, 214
" Quinidine	17, 299	" Cobalt-oxide ..	5, 336
" Quinine	17, 279, 615	" Cumidine	13, 350
" Strychnine ..	17, 493	" Cupric oxide .	5, 436
" Telluric Iodide	4, 409	" Cuproso-cupric	
" Teriodide of Ar-		oxide	5, 436
senic .	4, 283	" Cuprous oxide	5, 436
" Terebene	14, 276	" Cyaniline ..	11, 361
" Tetramylamine ..	11, 112	" Ethylamine	11, 59
" Thiosinethylamine	10, 62	" Ethyl-nicotine	14, 237
" Triethamylamine	11, 111	" Ethylene-	
" Turpentine oil .	14, 269	strychnine	17, 512
" Zinc-oxide	5, 28	" Ferric oxide	5, 251
Hydriodates ..	2, 269	" Ferrous oxide	5, 250
Hydriodic acid. .	2, 261	" Hydroberberine	17, 255
" action of, on al-		" Melaniline	11, 354
cohol .	13, 417	" Menaphthyl-	
" electrolysis of	1, 455	mine	14, 126
" ioduretted	2, 261	" Methylamine	7, 316
" solution of, in		" Methylbrucine	17, 586
alcohol	8, 264	" Methylene .	7, 286
" sulphate of .	2, 268	" Methyl-strych-	
" Ethers, action of, on		nine ..	17, 508
Sulphocyanides	13, 413	" Naphthylamine	14, 99
" Ethers, decomposition		" Nickel-oxide. .	5, 376
of Cyanides by ..	13, 408	" Nitranisidine .	12, 267
" Methyl-ether	7, 285	" Nitroharmaline	16, 124
Hydriodite of Ammonia	2, 468	" Phosphuretted	
" Potash .	3, 50	hydrogen .	2, 283
" Soda . .	3, 106	" Quadribromo-	
" Zinc-oxide	5, 29	naphthaline	14, 36
Hydriodites .	2, 261	" Quinidine	17, 299
Hydriodous acid .	2, 261	" Stannous oxide	5, 84
Hydrobenzamide .	12, 191	" Strychnine ..	17, 93
Hydrobenzole	12, 186	Hydrobromates, metallic	2, 286
Hydroberberine	17, 253	" of Terebene .	14, 276
Hydroboracite	3, 254	Hydrobromate of Terbromoben-	
Hydrobromate of Ammonia	2, 469	zene	11, 169
" Ammonia, con-		" Terbromoco-	
taining Ses-		dene	17, 38
quibromide		" Turpentine oil	14, 269
of Iron	5, 262	" Zinc-oxide ...	5, 29
" Aniline ..	11, 258	Hydrobromic acid	2, 279
" Antimonic ox-		" acid gas, absorp-	
ide	4, 365	tion of, by volatile	
" Berberine	17, 191	oils and camphors	7, 168
" Bichlorocinchon-		" acid, action of, on	
nine	17, 237	alcohol	13, 417
" Bromocapry-		" acid, electrolysis of	1, 455
lene .	13, 216	" acid, sulphate of	2, 284
" Bromocodaine	17, 37	" methyl-ether	7, 286
" Bromocymene	14, 214	Hydrobromous acid . . .	2, 279
" Bromopapave-		Hydrocarbon from oil of Roman	
rine ..	17, 262	Chamomile	14, 309
" Bromostillbene	12, 170	" C ¹⁸ H ¹² obtained by	
" Cadmic oxide	5, 60	distilling eugenic	
" Caoutchouin ...	14, 329	acid with baryta	13, 341

Hydrocarbons from American petroleum .. 16, 532	Hydrochlorate of Athamantin, body obtained from .. 12, 98
" " from Boghead Cannel coal .. 13, 386	" Atropine .. 16, 454
" composition and boiling points of .. 7, 154	" Auric chloride .. 6, 216
" conversion of, into camphors, by taking up the elements of water .. 7, 167	" Beberine .. 17, 172
" isomeric with Naphthalin, obtained by the dry distillation of the Benzoates .. 14, 11	" Benzamide .. 12, 142
" liquid, obtained by distillation of coal-tar .. 15, 155	" Benzidine .. 11, 340
" as primary nuclei .. 7, 153	" Benzylene .. 12, 50
" solubility of, in alcohol .. 8, 274	" Berberine .. 17, 191
Hydrocarburetted Chloride of Platinum 8, 388	" Berberine, with cyanide of mercury .. 17, 195
Hydrocarotin 17, 53	" Berberine, with glyccoll .. 17, 195
Hydrochlorates.... .. 2, 353	" Diamidobenzoic acid .. 12, 150
Hydrochlorate of Acedamine .. 13, 535	" Bibromallylamine .. 13, 549
" Acetamide .. 12, 543	" Bibromocinchonine .. 17, 237
" Aconitine .. 18, 176	" Bichlorocinchonine .. 17, 238
" Acrolein 13, 551	" Bichloroharmine .. 16, 108
" Alanine .. 9, 436	" Bichlorostilbene .. 12, 172
" Alumina, preservation of meat by injection with .. 7, 117	" Biphenaniline .. 11, 335
" Amarine .. 12, 196	" Borneol .. 14, 353
" Amidobenzoic acid .. 12, 145	" Bromaniline .. 11, 278
" Amidocummic acid ... 14, 175	" Bromocinchonine .. 17, 235
" Amidonitriline ... 11, 294	" Bromocodaine .. 17, 38
" Amidosulphobenzene .. 11, 348	" Bromine .. 2, 350
" Ammonia 2, 478	" Bromopapaverine .. 17, 262
" Amylamine... 11, 106	" Brucine .. 17, 580
" Amylstychnine ... 17, 515	" Butylamine ... 10, 147
" Aniline ... 11, 259	" Cadmic oxide .. 5, 60
" Anisene? 13, 131	" Caffeine .. 13, 232
" Anisine ... 13, 146	" Caoutchou .. 14, 329
" Anthranilic acid 13, 328	" Caprylamine .. 13, 220
" Antimonic oxide 4, 368	" Carvene ... 14, 284
" Aribine ... 17, 563	" Casein .. 18, 314
" Aricine 17, 570	" Chelerythrine .. 17, 159
" Asparagine .. 10, 245	" Chelidonium... .. 17, 166
" Aspartic acid .. 10, 233	" Chinoline .. 13, 248
" Athamantin .. 12, 103	" Chloraniline .. 11, 283
	" Chloranthracene .. 16, 168
	" Chloretherose .. 9, 213
	" Chlorobromonaphthalin .. 14, 71
	" Chlorocymene .. 14, 214
	" Chloronaphthalin 14, 39
	" Chloronitro-harmine ... 16, 115
	" Chlorostilbene .. 12, 171

Hydrochlorate of	Chromic acid	4, 137	Hydrochlorate of	Ethylphthal-	
"	Cinchonidine	17, 225	"	idine	13, 35
"		228, 612	"	Ethylquinine	17, 309
"	Cinchonine	17, 209	"	Ethylstrych-	
"	Cinnamic Alde-		"	nine	17, 512
"	hyde	13, 262	"	Fucusine	10, 382
"	Citryl, or of		"	Furfurine	10, 380
"	Citrylene	14, 301	"	Glaucone	17, 161
"	Cobalt-oxide	5, 337	"	Glaucopterine	17, 160
"	Cocaine	16, 302	"	Gomart oil	14, 291
"	Codeine	17, 33	"	Lecithine	18, 377
"	Conhydrine	13, 169	"	Leucine	11, 431
"	Conine	13, 165	"	Lophine	12, 202
"	Copahylene	14, 288	"	Manganic	
"	Copaiba oil	14, 287	"	oxide	4, 229
"	Corydaline	17, 609	"	Manganous	
"	Cotarnamic		"	oxide and	
"	acid	16, 134	"	Ammonia	4, 233
"	Cotarnine	16, 133	"	Melaniline	11, 354
"	Cratinine	10, 258	"	Menaphthyla-	
"	Creatine	10, 254	"	mine	14, 126
"	Cubebene	16, 272	"	Menthene	14, 446
"	Cumaramine	13, 338	"	Mercuraline	18, 201
"	Cumidine	13, 350	"	Mesitylene	9, 27
"	Cupric oxide	5, 439	"	Metacrolein	13, 551
"	Cuproso-cupric		"	Metamorphine	16, 442
"	oxide	5, 438	"	Methylamine	7, 316
"	Cyanic acid	8, 63	"	Methylbrucine	17, 587
"	Cyanic ether	13, 563	"	Methylene	7, 286
"	Cyaniline	11, 361	"	Methyl-piperi-	
"	Cymidine	14, 219	"	dine	10, 450
"	Cystine	9, 439	"	Methyl-strych-	
"	Diniodome-		"	nine	17, 509
"	thylamine	7, 319	"	Molybdic acid	4, 65
Hydrochlorates of	Diplatinamine	6, 305,	"	Molybdic ox-	
		316	"	ide	4, 64
Hydrochlorate of	Diplatosamine	6, 300	"	Molybdous	
"	Ethylamine	9, 60	"	oxide and	
"	Guanine	10, 481	"	Ammonia	4, 60
Hydrochlorates of	Glycocoll	9, 252	"	Molybdous	
Hydrochlorate of	Harmaline	16, 118	"	oxide and	
"	Harmine	16, 106	"	Potash	4, 72
"	Hæmatin	18, 400	"	Morphine	16, 431
"	Hydrastine	17, 544	"	Naphthyla-	
"	Hydroberbe-		"	mine	14, 99
"	rine	17, 255	"	Narceine	17, 600
"	Hydrocyan-		"	Narcotine	16, 143
"	harmaline	16, 121	"	Nickel-oxide	5, 378
"	Iridic oxide	6, 380	"	Nicotine	14, 227
"	Lanthopine	18, 197	"	Nitraniline	11, 291
Hydrochlorates of	Lemon-oil	14, 300	"	Nitranisidine	12, 267
Hydrochlorate of	Lepidine	14, 104	"	Nitrocodeine	17, 41
"	Ethylamine,		"	Nitroharma-	
"	with cyanide		"	tine	16, 124
"	of mercury	9, 62	"	Nitroharmane	18, 110
"	Ethylconine	13, 171	"	Nitrotyrosine	13, 363
"	Ethylnicotine	14, 237	"	oil of Berga-	
"	Ethylpiperi-		"	mot	14, 283
"	dine	10, 451	"	oil of Elemi	14, 290

Hydrochlorate of oil of Juniper-berries ...	14, 294	Hydrochlorate of Strychnine with mercuric cyanide	17, 500
" oil of Turpentine ..	14, 265	" Tantallic acid	4, 6
Hydrochlorates of Orange-peel oil	14, 306	" Telluric acid	4, 413
Hydrochlorate of Osmic acid .	6, 413	" Telluric chloride ..	4, 413
" Papaverine	17, 259; 18, 203	" Terbromococaine	17, 39
" Paricine ...	17, 572	" Terchlorobenzene	11, 180
" Pelosine .	17, 26	" Terchloronapthalin ..	14, 55
" Petinine	10, 151	" Terchlorotoluol	12, 292
" Phloramine	15, 70	" Terebene	14, 274
" Phosphuretted Hydrogen .	2, 331	" Thebaine	17, 169
" Phthalidine	13, 34	" Thebenine ..	18, 210
" Picoline .	11, 268	" Thialdine	9, 314
" Piperidine .	10, 448	" Thiosinethylamine	10, 62
" Platinic oxide	6, 295	" Thiosinamine	10, 59
" Platinous chloride ...	6, 293	" Theobromine	12, 471
" Platosamine, green .	6, 304	" Titanic oxide	3, 480
" Platosamine, red	6, 303	" Toluidine	12, 336
" Platosamine, yellow .	6, 302	" Triphenylamine	13, 305
" Propylamine	9, 412	" Tungstic acid	4, 37
" Pseudoquinine	17, 230	" Tyrosine .	13, 361
" Quinidine	17, 299	" Urea	7, 369
" Quinidine with zinc chloride	17, 300	" Urea, basic ...	13, 403
" Quinine	17, 282, 615	" Uranic oxide	8, 182
" Sarcosine ..	9, 433	" Uranic oxide and Ammonia .	4, 186
" Seminaphthylamine ..	14, 109	" Urano-uranic oxide	4, 181
" Serine .	13, 369	" Uranous oxide ..	4, 181
" Sesquibromocinchonine	17, 236	" Veratrine .	13, 183
" Sesquioxide of Tin	5, 87	" Zinc-oxide	5, 31
" Silica	3, 361	Hydrochloric acid . . .	2, 319
" Sinapine .	14, 526	" acid, action of, upon alcohol	13, 417
" Solanicine .	18, 89	" acid, aqueous	2, 323
" Solandine ..	18, 87	" acid, formation of, by combination of chlorine and hydrogen	1, 170; 2, 319
" Solanine ...	18, 96	" electrolysis of ...	1, 455
" Stannic oxide	5, 88	" acid, heat developed in the combination of, with water	1, 295
" and Stannite of Ammonia . .	5, 95	" acid gas, absorption of, by alcohol	3, 264
" and Stannite of Baryta ..	5, 99	" acid gas, absorption of, by volatile oils and camphors	7, 168
" and Stannite of Magnesia ...	5, 100		
" and Stannite of Potash	5, 98		
" and Stannite of Soda ..	5, 99		
" and Stannite of Strontia ...	5, 99		
" of Strychnine ..	17, 493		

Hydrochloric acid gas, maximum tension of, at different temperatures	1, 261, 2, 503	Hydrocyanate of Solanine	18, 97
" acid gas, percentage of, in aqueous hydrochloric acid	2, 324	" Stannic chloride	8, 149
" acid, impurities in commercial	2, 322	" Strychnine	17, 499
" acid and Phosphuretted Hydrogen with Chloride of Titanium	3, 481	" Titanic chloride	8, 148
" acid, presence of, in the air	2, 411	Hydrocyanates, metallic	7, 410
" acid, presence of, in common sulphuric acid	2, 181	Hydrocyanharmaline	16, 120
" acid, solubility of silver chloride in	6, 428	Hydrocyanic acid	7, 389
" acid, Sulphate of	2, 341	" acid, anhydrous, preparation of	7, 394
" Ether, Bichlorinated	9, 193	" acid, anhydrous, properties of	7, 55, 399
" Ether, heavy	8, 373	" acid, aqueous, preparation of, from Cyanide of Lead	7, 394
" Ether, heavy, formation of, by the action of chlorine on alcohol	8, 212	" acid, aqueous, preparation of, from Cyanide of Mercury	7, 393
" Ether, light	8, 368	" acid, aqueous, preparation of, from Cyanide of Potassium	7, 392
" Ether, monochlorinated	8, 368	" acid, aqueous, preparation of, from Ferrocyanide of Potassium	7, 390
" Ether, quadrichlorinated	9, 213	" acid, aqueous, proportion of anhydrous acid in, according to the specific gravity	7, 404
" Methyl-ethers	7, 287	" acid with Bitter Almond oil	12, 28
Hydrochromocyanic acid	7, 420	" acid, compounds of, with metallic chlorides	8, 148
Hydrochrysammide	12, 14	" acid, electrolysis of	1, 455
Hydrocinchonine	17, 230	" acid, formation of, by action of emulsion on amygdalin	7, 389
Hydrocinnamide	13, 304	" acid, formation of, by the action of nitric acid on organic compounds	7, 124
Hydrocobaltocyanic acid	7, 492	" acid, formation of, by action of nitric oxide, nitrous acid, or nitric acid on organic compounds	7, 381
<i>Hydrocotyle asiatica</i> , bitter of	18, 243	" acid, formation of, by decomposition of formate of ammonia	7, 383, 390
Hydrocyanaldine	13, 364	" acid, formation of, by oxidation of	
Hydrocyanate of Antimonic chloride	8, 149		
" Benzile	12, 185		
" Berberine	17, 194		
" Cinchonine	17, 213		
" Codeine	17, 35		
" Ferric chloride	8, 149		
" Ferric oxide and Potash	7, 453		
" Hæmoglobin	18, 394		
" Morphine with Cyanide of Platinum	16, 483		
" Platossamine	8, 45		
" Quinine	17, 286		
" Quinine with Cyanide of Platinum	17, 287		

nitrogenous or- ganic compounds	7, 382	Hydrofluuate of Chromic acid	4, 139
Hydrocyanic acid, impurities in	7, 398	" Cinchonidine	17, 225
" acid, mixture of,		" Cinchonine	17, 210
" with volatile oils	7, 168	" Cobalt-oxide	5, 337
" acid, occurrence of,		" Cumidine	13, 350
" in the kernels of		" Melaniline	11, 354
" bitter almonds,		" Mercuric oxide	
" plums, &c	7, 389	" and Ammonia	6, 91
" acid, reactions of	7, 400	" Methylene	7, 290
" acid, testing of	7, 396	" Molybdic acid	4, 65
Hydrocyanitrotharmaline	16, 126	" Molybdic oxide	4, 65
Hydroelaterin	17, 367	" Molybdic oxide	
Hydroferricyanate of Berberine	17, 195	" and Ammonia	4, 69
" Brucine	17, 583	" Molybdic oxide	
" Cinchonine	17, 214	" and Potash	4, 72
" Harmaline	16, 119	" Molybdic oxide	
" Harmine	16, 107	" and Soda	4, 74
" Methyl-		" Molybdous oxide	4, 65
" strychnine	17, 510	" Molybdous oxide	
" Nitrohar-		" and Ammonia	4, 69
" maline	16, 125	" Molybdous oxide	
" Nitrohar-		" and Potash	4, 72
" mine	16, 111	" Molybdous oxide	
" Quinine	17, 287	" and Soda	4, 74
" Strychnine	17, 500	" Morphine	16, 432
Hydroferricyanic acid	7, 449	" Platonic oxide	6, 296
Hydroferrocyanates	7, 432	" Quinine	17, 283
Hydroferrocyanate of Berberine	17, 194	" Silica and Anti-	
" Brucine	17, 582	" monic oxide	4, 390
" Cincho-		" Silica and Manga-	
" nidine	17, 613	" nous oxide	4, 244
" Cinchonine	17, 213	" Silica and Molyb-	
" Codeine	17, 35	" dic oxide	4, 79
" Harmaline	16, 119	" Silica and Molyb-	
" Harmine	16, 107	" dous oxide	4, 79
" Methyl-		" Silica and Uranous	
" strychnine	17, 510	" oxide	4, 192
" Nitrohar-		" Silica and Vana-	
" maline	16, 125	" dic acid	4, 104
" Nitrohar-		" Silica and Vana-	
" mine	16, 111	" dic oxide	4, 103
" Quinine	17, 287	" Silica and Zinc-	
" Strychnine	17, 499	" oxide	5, 47
" Veratrine	18, 184	" Stannic oxide	5, 92
Hydroferrocyanic acid	7, 429; 9, 506	" Stannous oxide	5, 92
" acid, electroly-		" Strychnine	17, 494
" sis of	1, 456	" Tantallic acid and	
Hydrofluates	2, 366	" Lime	4, 11
" of Ammonia	2, 488	" Zinc-oxide	5, 33
Hydrofluuate of Ammonia with		Hydrofluoric acid	2, 360
Fluoride of		" electrolysis of	1, 455
Aluminium	3, 320	" solubility of,	
" Ammonia with		" in alcohol	3, 265
Chromic fluoride	4, 143	Hydrofluoboric acid	2, 364
Hydrofluates of Boracic acid	2, 363	Hydrofluosilicic Acid	3, 366
Hydrofluuate of Borate of Mag-		Hydrogen	2, 41
nesia	3, 243	" -acids	2, 79
" Brucine	17, 581	" -acids, compounds	
		" with metallic oxides	2, 10

Hydrogen-acids, aqueous elec- trolysis of	1, 455	bromine in organic compounds	7, 122
Hydrogen, Antimonide ? solid	4, 332	Hydrogen, replacement of, by chlorine in organic	
„ Antimoniuretted ..	4, 333	compounds	7, 119
„ Arsenide, solid	4, 264	„ replacement of, by iodine in organic	
„ Arseniuretted ..	4, 264	compounds	7, 122
„ Bicarburetted	8, 164; 11, 134	„ replacement of, in nuclei by elements and compound radi- cals	7, 18
„ Bichloride of	2, 325	„ replacement of, in or- ganic compounds, by other elements and radicals	7, 72
„ Boruretted	2, 100	„ seleniuretted	2, 241
„ combination of, with Oxygen	2, 45	„ solubility of, in alcohol	8, 258
„ effect of, on the boil- ing points of organic compounds	7, 57	„ sources of	2, 43
„ elimination of, in fer- mentation and pu- trefaction	7, 97	„ suboxide of ?	2, 79
„ estimation of, in or- ganic compounds	7, 86	„ substitution of, for chlorine, bromine, and iodine, in or- ganic compounds . . .	7, 74
„ ethylide of	8, 170	„ Sulphides of	2, 193
„ ferruretted ?	5, 201	„ sulphuretted	2, 195
„ flame of	2, 59	„ Telluride of, solid . . .	4, 404
„ history of	2, 42	„ zincuretted ?	5, 13
„ impurities in	2, 44	„ and Ammonium, Sele- nide of	2, 464
„ light carburetted or protocarburetted	7, 249	„ and Ammonium, sul- phide of	2, 452
„ memoirs relating to . .	2, 41	„ and Antimony, com- pounds of	4, 332
„ in organic compounds	7, 5	„ and Arsenic, com- pound of	4, 264
„ Peroxide	2, 73	„ and Bibromosalicine, sulphide of	12, 290
„ Peroxide, electrolysis of	1, 451	„ and Calcium, hydrated selenide of	3, 202
„ Persulphide	4, 193	„ and Calcium, hydrated sulphide of	3, 197
„ „ „ „ „ „ „ „ „ „ ioduretted	2, 268	„ and Ethylene, sul- phide of	8, 403
„ Phosphuretted, liquid	2, 148	„ and Lead, iodide of . .	5, 142
„ Phosphuretted, gaseous	2, 136	„ and Lithium, fluoride of	3, 131
„ Phosphuretted, and Hydrochloric acid with Chloride of Ti- tanium	3, 481	„ and Lithium, sulphide of	3, 128
„ Phosphuretted, with Chloride of Alumi- nium	3, 317	„ and Magnesium, hydrated sulphide of	3, 235
„ Phosphuretted, with Chloride of Titanium	3, 480	„ and Mercury, bromide of	6, 44
„ Phosphuretted, hy- driodate of	2, 265	„ and Mercury, chloride of	6, 61
„ Phosphuretted, hy- drobromate of	2, 283	„ and Mercury, iodide of and Oxygen, combina- tion of, induced by	6, 40
„ Phosphuretted, hy- drochlorate of	2, 331		
„ Phosphuretted with Pentachloride of An- timony	4, 370		
„ Platinocyanide of . . .	12, 499		
„ preparation of	2, 43		
„ properties of	2, 44		
„ protophosphide of . . .	2, 135		
„ replacement of, by			

platinum wire or plate ..	2, 46	Hydroleic acid ..	17, 89
Hydrogen and Oxygen, combination of, induced by spongy platinum ..	2, 49	Hydrolite ..	3, 440
" and Oxygen, induced by platinum reduced to laminae ..	2, 51	Hydromagnesite ..	3, 226
" and Oxygen, combination of, induced by platinum-black ..	2, 51	Hydromargaric acid ..	17, 89
" and Oxygen, combination of, induced by iridium, osmium, palladium, gold- and silver-leaf ..	2, 53	Hydromargaritic acid ..	17, 88
" and Oxygen, combination of, induced by copper, nickel, cobalt, and iron reduced by hydrogen ..	2, 53	Hydromellonates ..	9, 388
" and Oxygen, combination of, induced by heated charcoal, pumice, porcelain, rock-crystal and glass ..	2, 53	Hydromellone ..	8, 386
" and Oxygen, explosion of ..	2, 58	Hydromellonic acid ..	9, 386; 10, 545
" and Oxygen, inflammation of a mixture of, by the electric spark ..	2, 45	Hydrometer scales, relative values of ..	1, 10
" and Oxygen, heat and light attending the rapid combustion of ..	2, 58	Hydrophite ..	3, 396
" and Oxygen, retardation of combination of, in contact with platinum, by admixture of various gases ..	2, 53	" from Taberg, vanadium in ..	4, 81
" and Potassium, fluoride ..	3, 65	Hydropersulphocyanic acid ..	8, 103
" and Potassium, sulphide ..	3, 31	" acid, solubility of, in alcohol ..	8, 273
" and Sodium, fluoride ..	3, 116	Hydrophyr ..	18, 337
" and Sodium, sulphide ..	3, 97	Hydropiperate of Ethyl ..	15, 13
" and Strontium, sulphide ..	3, 173	Hydropiperates, metallic ..	15, 12
Hydrogen-salts ..	2, 9	Hydroplatinocyanate of Brucine ..	17, 583
<i>Hydrogenum</i>	2, 42	" Strychnine ..	17, 501
Hydrogode	1, 431	Hydroplatinocyanic acid ? ..	8, 44
Hydro-gratioloretin ..	16, 470	" acid, solubility of, in alcohol ..	8, 273
Hydro-iridocyanic acid ..	8, 60	Hydroquinine ..	17, 306
Hydrokinone, colourless ..	11, 161	Hydroquinone ..	11, 161
" green ..	11, 164	Hydrorhodeoretin, <i>see</i> Convolvulic acid	
" with acetate of lead ..	11, 162	Hydroseleniates ..	2, 245
		" of Ammonia ..	2, 464
		" Manganous oxide ..	4, 226
		Hydroselenic acid ..	2, 241
		" ether ..	8, 356
		Hydroselenite of Alumina ..	3, 314
		Hydroselenite of Baryta ..	3, 153
		Hydro-selenocyanic acid ..	8, 122
		<i>Hydrosiderum</i> ..	5, 222
		Hydrosulphate of Aluminic chloride ..	3, 317
		Hydrosulphates of the alkalis ..	2, 225
		" Ammonia ..	2, 451
		Hydrosulphate of Ammonia with tersulphide of chromium ..	4, 142
		" Arsenous acid ..	4, 274
		" Azobenzoyl ..	12, 215
		" Carvol ..	14, 417
		" Cobalt-oxide ..	5, 331
		Hydrosulphates of Cyanogen ..	8, 116, 118
		" solubility of in alcohol ..	8, 273
		Hydrosulphate of Ethyl ..	8, 340
		" Ethylamine ..	9, 59
		" Ferric oxide ..	5, 232
		" Ferrous oxide ..	5, 230

Hydrosulphate of Harmaline . .	16, 118	Hydrosulphuric ethers, quadri-	
Hydrosulphates of heavy metal-		chlorinated . . .	9, 214
lic oxides . .	2, 227	Hydrosulphurous acid . . .	2, 193
Hydrosulphate of Hydrokinone	11, 162	Hydrotelluric acid . . .	4, 404
" Lime	3, 197	Hydrothiocyanic acid . . .	8, 113
" Nickel-oxide	5, 371	" acid, solubility	
" Nickel - oxide		of in alcohol	8, 273
and Ammonia	5, 380	Hydrothiosulphocyanides . .	8, 99
" Stannous oxide	5, 78	Hydrothiosulphocyanides, solu-	
" Strychnine . .	17, 491	bility of, in alcohol . .	8, 273
" Sulpho carvol	14, 418	Hydrothio-sulphopruassic acid .	8, 98
" Ammonia . .	3, 452	Hydrous Aluminate of Lead	5, 165
" Lime . . .	3, 198	Hydruilic acid . . .	10, 158
Hydrosulphocarbonate of Am-		Hygrine . . .	16, 304
monia . . .	2, 463	Hygrometer, Daniell's	1, 286
Hydrosulphocarbonic acid . .	2, 206	" of De la Rive	1, 289
Hydrosulphocyanate of Berbe-		<i>Hymenea</i> Courbaril, gum animé	
" rine . .	17, 195	obtained from . .	17, 396
" Brucine	17, 583	" Courbaril and <i>H. ver-</i>	
" Cinchon-		rucosa, copal obtained	
dine	17, 227	from . . .	17, 405
" Cinchonine	17, 215	Hyocholates . . .	18, 101
" Codeine	17, 35	Hyoglycocholates . . .	18, 103
" Harmaline	16, 119	Hyodyslysin . . .	18, 100
" Harmine		Hyoscamine . . .	18, 456
16, 107, 111		<i>Hyoscyamus</i> , eremacausis of ex-	
" Laudanine	18, 198	tract of . . .	12, 92
" Morphine	16, 434	<i>Hyoscyamus niger</i> , oil from the	
" Narcotine	15, 145	seed of . . .	16, 314
" Nitrohar-		Hyperhalides . . .	7, 24
maline	16, 125	Hypericum-red . . .	16, 527
" Papave-		Hyperiodic acid, <i>see</i> Periodic	
rine	18, 203	acid	
" Quinine	18, 288	Hyperoxymuriate of Potash .	3, 58
" Sinapine	16, 527	Hyperoxymuriatic acid, <i>see</i> Chlo-	
Hydrosulphocyanic acid . .	8, 70	ric acid	
" electrolysis		Hypersthenes . . .	3, 404
of . . .	1, 456	Hypoacetylous acid . . .	8, 499
" solubility of		Hypoarsenious Sulphide . . .	4, 271
in alcohol	8, 273	Hypobenzoylous acid . . .	12, 48
Hydrosulphomellonic acid		Hypobromite of Baryta . .	3, 156
9, 472; 10, 548		" Lime . . .	3, 205
Hydrosulphuric acid . .	2, 195	" Magnesia ? . . .	3, 240
" acid, absorption		" Potash . . .	3, 54
of by liquid		" Silver-oxide	6, 160
volatile oils	7, 167	" Soda . . .	3, 110
" acid, action of		" Strontia . . .	3, 177
organic com-		Hypobromous acid ? . .	2, 276
pounds on . .	7, 145	Hypochlorate of Potash	3, 58
" acid gas, absorp-		" Ammonia ?	2, 480
tion of, by alco-		Hypochlorates ? . . .	2, 311
hol . . .	8, 263	Hypochlorites . . .	2, 299
" acid, maximum		" bleaching power	
tension of, at		of . . .	2, 303
different tem-		Hypochlorite of Ammonia ?	2, 479
peratures		" Baryta . . .	3, 160
1, 261; 2, 503		" Cupric oxide . .	5, 442
" acid, presence of,		" Lime . . .	3, 208
in the air . .	2, 411	" Magnesia . . .	3, 243

Hypochlorite of Potash . . .	3, 57	Hyposulpharsenite of Ammonia . . .	4, 288
" Silver-oxide . . .	6, 166	" Barium . . .	4, 301
" Soda . . .	3, 113	" Calcium . . .	4, 305
" Zinc-oxide . . .	5, 32	" Cerium . . .	4, 309
Hypochloronitric acid . . .	2, 477	" Magnesium . . .	4, 307
Hypochlorous acid . . .	2, 294	" Manganese . . .	4, 315
" acid, action of, on organic compounds . . .	7, 125	" Potassium . . .	4, 292
Hypogæic acid . . .	16, 317	" Sodium . . .	4, 297
" ether . . .	16, 319	" Strontium . . .	4, 302
Hypo-hydrosulphate of Ammonia . . .	2, 452	" Zinc . . .	5, 49
" -hydrosulphite of Ammonia . . .	2, 453	" Zirconium . . .	4, 310
" -iodide of Magnesia? . . .	3, 240	Hyposulpharsenites . . .	4, 272
Hyponitrate of Lead-oxide . . .	5, 153	Hyposulphate of Alumina . . .	3, 312
Hyponitric acid . . .	2, 382	" Ammonia . . .	2, 458
" acid, action of electric current on . . .	1, 452	" Baryta . . .	3, 151
" acid, action of, on fatty oils . . .	17, 75	" Cadmic oxide . . .	5, 58
" acid, replacement of, by Amidogen . . .	7, 75	" Cerous oxide . . .	3, 268
" acid, replacement of, by Nitrogen . . .	7, 75	" Chromic oxide . . .	4, 125
" acid, substitution of, for Hydrogen . . .	7, 73	" Cinchonine . . .	17, 206
Hypomnitrous acid, <i>see</i> Nitrous acid . . .	2, 380	" Cobalt-oxide . . .	5, 333
Hypophosphate of Cobalt-oxide and Lime . . .	5, 344	" Cupric oxide . . .	5, 424
" Ferric oxide . . .	5, 223	" Ferric oxide . . .	5, 237
Hypophosphite of Alumina . . .	3, 309	" Ferrous oxide . . .	5, 236
" Ammonia . . .	2, 441	" Lead-oxide . . .	5, 135
" Baryta . . .	3, 141	" Lime . . .	3, 200
" Cadmic oxide . . .	5, 56	" Luthia . . .	3, 129
" Cadmic oxide and Lime? . . .	5, 64	" Magnesia . . .	3, 235
" Cinchonidine . . .	17, 611	" Manganous oxide . . .	4, 220
" Cobalt-oxide . . .	5, 330	" Mercuric oxide . . .	6, 27
" Cupric oxide . . .	5, 417	" Mercurous oxide . . .	6, 27
" Ferric oxide . . .	5, 223	" Nickel-oxide . . .	5, 373
" Lead-oxide . . .	5, 128	" Potash . . .	3, 39
" Lime . . .	3, 190	" Silver-oxide . . .	6, 153
" Magnesia . . .	3, 232	" Soda . . .	3, 100
" Manganous oxide . . .	4, 215	" Stannous oxide . . .	5, 81
" Nickel-oxide . . .	5, 368	" Strontia . . .	3, 174
" Potash . . .	3, 27	" Zinc-oxide . . .	5, 22
" Quinine . . .	17, 275	Hyposulphates . . .	2, 175
" Soda . . .	3, 90	Hyposulphide, Phosphoric . . .	2, 212
" Strontia . . .	3, 171	" Phosphorous . . .	2, 209
" Zinc-oxide . . .	5, 17	Hyposulphindigotic acid . . .	13, 65
Hypophosphites . . .	2, 114	Hyposulphite of Ammonia . . .	2, 454
Hypophosphoric acid . . .	2, 120	" Auric oxide and Soda . . .	6, 232
Hypophosphorous acid . . .	2, 113	" Aurous oxide and Baryta? . . .	6, 233
Hypopicrotoxic acid . . .	14, 477	" Aurous oxide and Soda . . .	6, 231
Hyposulpharsenious acid . . .	4, 271	" Baryta . . .	3, 150
		" Berberine and Silver . . .	17, 193
		" Brucine . . .	17, 579
		" Cinchonidine . . .	17, 224, 611
		" Cinchonine . . .	17, 206
		" Cobalt-oxide . . .	5, 333
		" Codeine . . .	17, 32
		" Cuprosoplumbic . . .	5, 485

Hyposulphite, Cuproso-potassic	5, 458	Cyanide of	
" Cuproso-sodic ..	5, 461	Mercury	8, 19
" of Cuprous oxide	5, 423	Hyposulphite of Quinine	17, 276
" Cuprous oxide		" Silver-oxide	6, 152
" and Potash .	5, 458	" Silver-oxide and	
" Cuprous oxide		" Ammonia	6, 173
" and Soda .	5, 461	" Silver-oxide and	
" Magnesia ..	3, 235	" Lead-oxide .	6, 195
" Magnesia and		" Silver-oxide and	
" Ammonia	3, 247	" Lime	6, 181
" Magnesia and		" Silver-oxide and	
" Potash .	3, 249	" Potash	6, 178
" Ethylene? .	3, 404	" Silver-oxide and	
" Ferric oxide		" Soda	6, 179
" and Lime	5, 274	" Silver-oxide and	
" Ferrous oxide	5, 235	" Strontia ..	6, 181
" Glucina	3, 297	" Soda	3, 98
" Lead-oxide .	5, 135	" Stannous oxide?	5, 81
" Lead-oxide and		" Strontia	3, 173
" Ammonia	5, 158	" Strychnine	17, 491
" Lead oxide and		" Thebaine	18, 209
" Baryta .	5, 163	" Zinc-oxide ..	5, 21
" Lead-oxide and		Hyposulphites, metallic	2, 161
" Lime .	5, 164	Hyposulphoglutic acid	14, 23
" Lead-oxide and		Hyposulphomethylic acid	7, 294
" Potash ...	5, 160	Hyposulphophosphate of Manganese	4, 225
" Lead-oxide and		Hyposulphophosphates	2, 213
" Soda	5, 162	Hyposulphophosphite, Cupric	5, 431
" Lead-oxide and		" Cuprous	5, 431
" Strontia .	5, 164	" Ferrous	5, 246
" Lime	3, 199	" Mercuric	6, 31
" Mercuric oxide		" of Silver ..	6, 155
" and Ammonia	6, 78	Hyposulphophosphites	2, 211
" Mercuric oxide		Hyposulphophosphoric acid	2, 212
" and Baryta .	6, 106	Hyposulphophosphorous acid ..	2, 209
" Mercuric oxide		Hyposulphuric acid	2, 174
" and Lime ..	6, 107	" Bisulphuretted	2, 164
" Mercuric oxide		" Sulphuretted	2, 166
" and Soda ...	6, 103	" Tersulphuretted	2, 162
" Mercuric oxide		Hyposulphurous acid	2, 160
" and Strontia	6, 107	Hyposulphurous acid, action of,	
" Mercurous and		on mercury salts	6, 27
" Cuprous oxide	6, 131	Hypovanadate of Ammonia	4, 96
" Mercurous oxide		" Potash ..	4, 99
" and Potash .	6, 98	Hyssop oil	14, 371
" Morphine .	16, 430	Hyssopine ..	18, 196
" Nickel-oxide .	5, 371		
" Potash ..	3, 36		
" Potash with			

I.

<i>Iberis amara</i> , oil from the herb		Iceland moss, green colouring	
and seed of . . .	10, 56	matter of	17, 22
Ice, evaporation of, in air at common temperatures	1, 262, 268	" moss, preparation of Cetraric acid from	17, 22
" melting point of .	2, 61	" moss, preparation of Lithichenin from	18, 129
Iceland moss, bitter of . .	18, 230		

Ichthyophthalmin	3, 393	Indigo-blue, preparation of,	
Icica, Elemi-resin obtained from		from Indican	13, 40
various species of	17, 413	" -brown	13, 48
" resin	17, 421	" colourless	13, 92
Icican	17, 421	" copper	5, 422
Ichthidin	18, 385	" deoxidised	13, 92
Ichthin	18, 385	" effect of sunshine on the	
Ichthulin	18, 385	colour of	7, 95
Idocrase	3, 426	" -forming substances, oc-	
Idrialyn	17, 478	currence of, in urine	18, 407
Idryl	17, 477	" -green	13, 67
Igasuric acid	10, 229	" -green, resinous	13, 48
Igasurine	17, 589	" oxidised	13, 16
Ignatius beans, preparation of		" preparation of aniline	
strychnine from	17, 481	from	11, 247
Igneous fusion of salts	2, 64	" preparation of commercial	13, 37
Ilicic acid	16, 511	" preparation of picric acid	
Ilicin	16, 511	from	11, 212
Ilixanthin	16, 510	" purification of, by oxid-	
Illuminating power of flame,		sing Indigo-white	13, 38
conditions of	2, 30	" -red	13, 45
Ilmenite	5, 289	" -red, colourless	13, 47
Ilmenium	4, 20	" reduced	13, 92
Ilvaite	5, 285	" sublimation of	13, 39
Imabenzile	12, 218	Indigotate of Methylene	12, 311
Imasatin	13, 106	Indigotic Ether	12, 312
Imesatin	13, 82	Indigotine	13, 36, 96
Imidogen, substitution of, for		Indigo-vat, change of colour of	
oxygen	7, 76	cellulose in the	15, 144
Imperatorin	12, 98	" -white	13, 92
Imperial green	8, 329	" -yellow	13, 68
Imponderable bodies, chemistry		Induhmin	16, 4, 5
of	1, 160	Indin	13, 85
Inactive Tartaric acid	10, 369	" -potassium	13, 86
Inadescence 1, 107, 166, 208; 2, 28		Indiretin	16, 4, 7
" degrees of, ac-		Indirubin	16, 3, 7
cording to Pouil-		" supposed occurrence	
let	1, 290	of, in urine	18, 408
Incoercibles	1, 160	Induction, electric	1, 318
Incorporation of silver ores	6, 134	" magneto-electric	1, 319
Indelbrome	13, 112	Inflammable air	2, 42
Indian rubber	17, 344	" air, heavy	7, 249
" rubber, Chinese	17, 352	" chloroplatinate of	
" steel	5, 206	ammonium	8, 391
" yellow	17, 580, 534	" platino-potassic salt	8, 391
Indican	15, 345; 16, 1	Inflammation, spontaneous, of	
" in urine	18, 407	organic bodies	7, 85
Indicanin	16, 5	Infection of light	1, 164
Indicasin	16, 2	Infusible white precipitate	6, 85, 427
Indifferent oil of Cloves	14, 285	Infusoria, development of, in pu-	
Indifulvin	16, 3, 6	trefying solutions	7, 105
Indufusin	16, 6	Ink, blue, formed by dissolving	
Indufusone	16, 4, 6	Prussian blue in aqueous oxalic	#
Indiglucon	15, 302	acid	7, 446
Indigo-bitter, artificial	11, 212	Inorganic compounds of the first	
" -blue	13, 35	order, classification	
" -blue, conversion of into		of	2, 2
Indigo-white	13, 44	" compounds of the first	
" -blue, decompositions of	13, 41	order, combinations	

	of, with elementary bodies	2, 5	Iodate of Codeine and Ammonia	17, 33
Inorganic compounds of the first order, combinations of two, having no common constituent	2, 10		" Cupric Oxide	5, 434
" compounds of the first order, combinations of two, containing a common element	2, 5		" Ethylstannethyl	9, 106
" compounds of the second order, classification of	2, 5		" Ferric Oxide	5, 249
" compounds of the third order	2, 5		" Ferrous Oxide?	5, 249
" materials, formation of inorganic compounds from	7, 38		" Lead-oxide	5, 143
" materials, formation of organic compounds from	12, 477		" Lime	3, 204
Inosates	11, 120		" Lithia	3, 180
Inosinic acid	11, 119		" Magnesia	3, 240
Inosite	15, 351		" Manganous Oxide	4, 227
" hydrated	15, 354		" Mercuric Oxide	6, 41
Insects, phosphorescence of	1, 182		" Methylstannethyl	9, 103
Insolation, phosphorescence by	1, 193		" Nickel-oxide	5, 376
Insolmic acid	13, 318		" Nicotine	14, 227
Instantaneous crystallisation	1, 9		" Potash	3, 51
" light machine, Döbereiner's	2, 50, 57		" Palladium Oxide	6, 348
Insulators, electric	1, 312		" Platinum Oxide	6, 292
Intensity of the current, influence of, on decomposition	1, 439		" Quinine	17, 279
Internal structure of crystals	1, 18		" Silver-oxide	6, 158
Interposed plates, effect of, in the voltaic circuit	1, 478		" Soda	3, 106
Intervening cells in the voltaic circuit	1, 478		" Soda with Chloride of Sodium	3, 121
Inulin	15, 112		Iodates, Stannous and Stannic	5, 83
Inverted sugar	15, 254, 336		Iodate of Strontia	3, 176
Iodacetates	13, 530		" Strychnine	17, 492
Iodacetic acid	13, 529		" Uranic Oxide	4, 178
Iodaceticin, Glycolic	13, 431		" Uranous Oxide	4, 178
Iodal	9, 186		" Yttria	3, 288
Iodaldehyde	9, 185		" Zinc-oxide	5, 29
Iodaniline	11, 275		Iodethase	9, 185
Iodates	2, 528		Iodethyl-quimidine, Sulphate of	17, 313
Iodate of Ammonia	2, 469		Iodhydrin	9, 500
" Auric Oxide	6, 214		" Glycolic	13, 428
" Baryta	2, 151		Iodic acid	2, 253
" Bismuth-oxide	4, 437		" action of, on organic compounds	7, 125
" Brucine	17, 580		" compound of, with Phosphoric acid	2, 265
" Cadmic Oxide	5, 59		" compound of, with Sulphuric acid	2, 258
" Chromic Oxide	4, 130		" Electrolysis of	1, 452
" Cinchonine	17, 208		" Hydrates of	2, 257
" Cobalt-oxide	5, 335		" solution of, in alcohol	8, 264
" Cobalt-oxide and Ammonia	5, 340		" Oxide?	2, 251
			Iodide of Acetostannethyl	9, 101
			" Acetyl	12, 531
			" Allyl	13, 541
			" Amidogen	2, 465
			" Ammonia?	2, 467
			" Ammonium	2, 468
			" Amyl	11, 41
			" Antimony	4, 362
			" Antimony with Sulphide of Antimony	4, 364
			" Arseniethyl	9, 73
			" Arsenethylum	9, 77
			Iodides of Arsenic	4, 281
			Iodide of Arsenetriethyl	9, 75
			" Auric	6, 218

Iodide of Aurous	6, 211	Iodide of Mercury and Ammonia ..	6, 371
" Barium	3, 154	" Mercury and Barium ..	
" Barium with Cyanide of Mercury ..	8, 22	" Mercury and Cadmium ..	6, 124
" Benzoyl	12, 107	" Mercury and Calcium ..	6, 107
" Benzyl	12, 50	" Mercury and Hydrogen ..	6, 40
" Bisethyl	9, 89	" Mercury and Iron ..	6, 129
" Bismuth	4, 436	" Mercury and Potassium ..	6, 99
" Bismuth and Potassium ..	4, 447	" Mercury and Sodium ..	6, 104
" Bistannic Triethyl ..	13, 508	" Mercury and Strontium ..	6, 107
" Butyl	10, 100	" Mercury and Zinc ..	6, 123
" Cacodyl	9, 339	" Mesityl	9, 26
" Cadmium	5, 59	Iodides, metallic ..	2, 268
" Cadmium and Potassium ..	5, 64	" metallic, action of, on Alcohol ..	13, 418
" Calcium with Cyanide Mercury ..	8, 23	" metallic, compounds of, with Ammonia ..	2, 427
" Capryl	13, 193	" metallic, electrolysis of ..	1, 466
" Cerium?	3, 270	Iodide of Methstannic ..	11, 133
" Cetyl	16, 368	" Methyl	7, 285; 13, 451
" Chromium	4, 129	" Methylene	13, 390
" Cobalt	5, 335	" Methylene-stannethyl ..	9, 99
" Copper	5, 433	" Methylolplumbethyl ..	9, 108
" Cuprous, with Xanthamide ..	9, 276, 277	" Methylostannethyl ..	9, 103
" of Cyanogen	8, 135	" Methyltriethylphosphonium ..	12, 528
" Cyanogen, solution of, in volatile oils ..	7, 158	" Nickel	5, 374
" Ethyl	12, 512; 8, 358	" Nitrogen	2, 465
" Ethyl, action of Mercuric oxide on ..	13, 417	" Nitrogen, emission of light on the sudden decomposition of ..	1, 206
" Ethyl, action of, on silver-salts ..	13, 451	" Palladium	6, 347
" Ethyl, action of water ..		" Phosphorus	2, 265
" Ethyl, preparation of ..	13, 451	" Platinic	6, 291
" on	13, 418	" Platinous	6, 290
" Ethylene	8, 362	" of Potassium	3, 45
" Ethylene-stannethyl ..	9, 100	" Potassium with Cyanide of Mercury ..	8, 19
" Ethylostannethyl ..	9, 105	" Potassium, Iodine, and Oil of Cinnamon, compound of ..	13, 267
" Ferrous	5, 247	" Propylene	9, 397
Iodides of Gold	6, 211	" Pteleyl	9, 19
Iodide of Gold and Ammonium ..	6, 325	" Salicyl	12, 283
" Glucinum	3, 299	" Selenethyl	8, 356
" Hydrargethyl	9, 109	" Selenium	2, 68
Iodides of Iridium	6, 378	" Silver	6, 151
" Iron	5, 247	" Silver with Nitrate of Mercuric oxide ..	6, 199
Iodide of Iron with Quinine ..	17, 284	" Silver and Potassium ..	6, 178
" Lead	5, 140	" Silver paper	1, 176
" Lead and Ammonium ..	5, 159, 161	" Sodium	3, 105
" Lead and Hydrogen ..	5, 142	" Sodium with Cyanide of Mercury ..	8, 21
" Lead and Sodium ..	5, 163	" Spiroyl	12, 283
" Lime?	3, 203	" Stannethyl	9, 97
" Lithium	3, 130	" Stannic	5, 83
Iodide, Mercuric	6, 36	" Stannous	5, 82
" Mercuric with Nicotine ..	14, 228	" of Starch	15, 97
Iodide of Mercurotetraethylum ..	13, 482	" Stibethyl	9, 82, 10, 528
Iodide, Mercurous	4, 34		

GMELIN'S HANDBOOK OF CHEMISTRY.

of, with ethylum . . .	10, 528	Iodine and Magnesium, chloride	3, 243
of, with ethylum and Mer-		of . . .	2, 245
cury . . .	10, 529	„ memoirs relating to . . .	7, 170
„ Stabmethyleneethylum ..	13, 501	„ „ Aldehydes of . . .	7, 194
„ Stabmethylum . . .	7, 326	„ „ in organic compounds . .	7, 5
„ Stabtriethylum . . .	11, 127	„ with Papaverine . . .	17, 258
„ Strontium . . .	3, 175	„ and Potassium, chloride	
„ Strontium with Cya-		of . . .	3, 63
nide of Mercury . . .	8, 22	„ preparation of . . .	2, 249
„ Sulphur . . .	2, 267	„ properties of . . .	2, 250
„ Sulphur, sulphate of . .	2, 350	„ purification of . . .	2, 250
„ Telluramyl . . .	11, 45	„ replacement of, by Ami-	
„ Telluric, Tellurite of . .	4, 409	dogen . . .	7, 74
„ of Thiosmethyllumonium	10, 62	„ reaction of, with Boron .	2, 264
„ Tellurethyl . . .	8, 385	„ replacement of, by Hy-	
„ Telluromethyl . . .	10, 493	dogen . . .	7, 74
Iodides of Tellurium . . .	4, 408	„ replacement of, by Sul-	
Iodide of Tetramethylum		phur . . .	7, 75
7, 320; 12, 490		„ -salts . . .	2, 9, 271
„ Tetrethylum . . .	9, 67	„ solution of, in alcohol .	3, 264
„ Tetrethylum and Mer-		„ sources of . . .	2, 247
cury . . .	12, 483	„ substitution of, for Hy-	
„ Tetrethylphosphonium	12, 527	dogen . . .	7, 73, 122
„ Triethylamylphospho-		„ Sulphate of . . .	2, 267
nium . . .	12, 529	Iodide of Potash . . .	3, 50
„ Triethylphosphine . . .	12, 525	„ Soda . . .	3, 106
Iodides of Tin . . .	5, 82	Iodo-aurate of Barium . .	3, 293
Iodide of Uranium . . .	4, 178	„ Iron . . .	3, 246
„ Yttrium . . .	3, 288	„ Potassium . . .	3, 228
„ Zinc . . .	5, 28	„ Sodium . . .	3, 232
„ Zinc and Ammonium . .	5, 40	„ Strontium . . .	3, 234
„ Zinc and Barium . . .	5, 45	Iodo-camphor . . .	14, 317
„ Zinc-oxide . . .	5, 29	Iodochloride of Tin . . .	5, 91
„ Zinc and Potassium . .	5, 44	Iodo-cinchonidine, sulphate of .	17, 313
„ Zinc and Sodium . . .	5, 45	Iodo-cinchonine, sulphate of . .	17, 313
Iodine, action of, on volatile oils	7, 165	Iodo-cinnamic acid . . .	13, 293
„ and Ammonium, chloride		Iodoform . . .	7, 331; 13, 309
of . . .	2, 487	„ solubility of in alcohol .	3, 273
„ aqueous solution of . .	2, 251	Iodo-hydroiodate of Berberine . .	17, 190
„ atomic weight of . . .	2, 251	Iodo-hydrocarotin . . .	17, 54
„ Bromides of . . .	2, 285	Iodomecone . . .	10, 445
„ -compound of Bismethyl	9, 88	Iodomeconin . . .	14, 437
„ compound of, with Bru-		Iodomercurate of Ammonium . . .	3, 80
cine . . .	17, 577	„ Brucine . . .	17, 581
„ compound of, with Strych-		„ Cinchonidine . . .	17, 226
nine . . .	17, 489	„ Cinchonine . . .	17, 211
„ Chlorides of . . .	2, 346, 318	„ Lanthopine . . .	13, 197
„ compounds of, with Nuclei	7, 212	„ Papaverine . . .	17, 260; 13, 203
„ -compound of Tannic acid		„ Potassium . . .	13, 483
from fruits . . .	15, 519	„ Strychnine . . .	17, 497
„ electrolysis of aqueous so-		„ Tetrethylum . . .	9, 68
lution of . . .	1, 451	Iodomercure of Ammonia . .	3, 80
„ and Ethylene-gas, combi-		Iodomethylselenious acid . .	10, 492
nation of in sunshine		Iodopalladate of Potassium . .	3, 353
1, 170, 3, 362		Iodophenyl-citraconimide . .	11, 322
„ history of . . .	2, 247	Iodoprianyl . . .	14, 437
„ Iodide of Potassium, and		Iodoplatinate of Ammonium . .	3, 300
oil of Cinnamon, com-			
ound of . . .	13, 267		

Iodoplatinate of Barium	6, 327	Iridious Oxide	6, 371
„ Iron	6, 337	„ Oxide, Chloro-hyposulphate of, with Chloride of Potassium	6, 389
„ Potassium	6, 321	„ Oxide, Chloro-hyposulphate of, with Sulphate of Potash	6, 388
„ Sodium	6, 325	„ Oxide, Chloro-hyposulphate of, with Sulphate of Potash and Chloride of Potassium	6, 390
„ Zinc	6, 333	„ Oxide, hydrated	6, 371
Iodoplatinic acid	6, 291	„ Oxide and Potash, Sulphite of	6, 384
Iodoplatinous acid	6, 290	„ Oxide, Sulphite of, with Chloride of Potassium	6, 388
Iodopropylene	9, 427	„ Salts	6, 371
Iodopyromecomic acid	10, 443	„ Sulphate	6, 377
Iodoquinine, Sulphate of	17, 313	Iridium	6, 369
Iodoquinidine, Sulphate of	17, 313	„ Amalgam	6, 392
Iodoquinine, Sulphate of	17, 312	„ Ammonio-protoclauride?	6, 381
Iodosaliculous acid	12, 283	„ Ammonio-resquinoxide	6, 381
Iodostannic acid	5, 83	„ Bichloride	6, 380
Iodostannite of Ammonium	5, 93	„ Bimodide	6, 378
„ Barium	5, 99	„ Bioxide	6, 373
„ Potassium	5, 97	„ Bisulphide	6, 376
„ Sodium	5, 98	„ -black	6, 370
„ Strontium	5, 99	„ Blue Oxide of	6, 371
Iodostannous acid	5, 82	„ Blue Oxide of, with Alumina?	6, 391
Iodostrychnine, Sulphate	17, 492	„ Blue Oxide of, with Lime	6, 391
Iodosulphate, Mercuric	6, 41	„ Carbide	6, 375
Iodosulphide of Antimony	4, 363	„ Chlorides	6, 378
„ Mercuric	6, 41	„ Hydrated Sesquioxide	6, 372
Iodotellurate of Ammonium	4, 415	„ Iodides	6, 378
„ Potassium	4, 420	„ Oxide	6, 393, 423
„ Sodium	4, 422	„ Oxides	6, 370
Iodozincate of Sparteine	16, 282	„ Phosphide	6, 375
Iodous acid	2, 252	„ preparation of	6, 255, 261, 270, 369
Ioduretted Bisulphide of Carbon	2, 268	„ Protochloride	6, 378
„ Hydriodic acid	2, 261	„ Protoxide	6, 371
„ Persulphide of Hydrogen	2, 268	„ Protoxide of, with Potash	6, 383
Iolite	3, 434	„ Protoxide of, with the Sesquioxides of Chromium and Iron	6, 425
„ hydrated	3, 435	„ Protosulphide	6, 376
Ions	1, 431, 433	„ -sal-ammoniac	6, 382
Ipecacuanha root, gum from	15, 205	„ -salts, solubility of, in alcohol	6, 272
Ipecacuanhic acid	15, 523	„ Sesquichloride	6, 379
<i>Ipomœa orizabensis</i> , occurrence of Jalapin in the root stock of	16, 405	„ Sesquioxide	6, 372
„ <i>Turpethum</i> , resin of the root of	17, 453	„ Sesquioxide of, with Potash	6, 383
Ipomœic acid	14, 493	„ Sesquioxide, salts of	6, 373
Iridiate of Potash	6, 384	„ Sesquisulphide	6, 376
Iridic Arseniate	6, 391	„ spongy, effect of, in inducing the combination	
„ Chloride	6, 380		
„ Chromate	6, 391		
„ Hydrate	6, 373		
„ Hydrochlorate	6, 380		
„ Oxide	6, 373		
„ Oxide with Sulphate of Baryta	6, 391		
„ Oxychloride	6, 381		
„ Salts	6, 374		
„ Sulphate	6, 378		
Iridioyanide of Potassium	6, 60		
Iridious Chloride	6, 378		
„ Nitrate	6, 381		

of oxygen and hydrogen ...	2, 52	Iron, Azelaate ...	17, 81
Iridium, Sulphate of Sesquioxide of ...	6, 378	„ bar or wrought ...	5, 205
„ Sulphides ...	6, 376	„ Benzoates ...	12, 42
„ Terchloride ...	6, 381	„ Dimethylphosphate ...	12, 483
„ Teroxide ...	6, 375	„ Bismuthide ...	5, 312
„ Teroxide with Potash ...	6, 384	„ Bisulphide ...	5, 232
„ Tersulphide ...	6, 377	„ Bisulphide, with Proto-arsenide of Iron ...	5, 309
„ and Ammonium, bichloride of ...	6, 382	„ -black ...	5, 193
„ and Ammonium, protochloride of ...	6, 382	„ -blueing Tannic acids ...	15, 452
„ and Ammonium, sesquichloride of ...	6, 382	„ Bromides ...	5, 250
„ and Copper, alloy of ...	6, 392	„ Butyrate ...	10, 87
„ and Gold, alloy of ...	6, 393	„ (ferrocum) Camphorate ...	14, 461
„ and Lead, alloy of ...	6, 392	„ Carbide ...	5, 202
„ and Platinum, alloys of ...	6, 393	„ cast, action of acids on ...	5, 215
„ and Potassium, bichloride of ...	6, 386	„ Chlorides ...	5, 251
„ and Potassium, protochloride of? ...	6, 385	„ Chrysammates ...	12, 6
„ and Potassium, sesquichloride of ...	6, 385	„ -cinder ...	5, 281
„ and Potassium, sulphide of ...	6, 384	„ -cinder, brown ...	5, 308
„ and Potassium, terchloride of? ...	6, 387	„ -cinder, white ...	5, 307
„ and Silver, alloy of ...	6, 392	„ Cinamate ...	13, 276
„ and Silver, chloride of ...	6, 392	„ Cobaltcyanide ...	7, 497
„ and Sodium, bichloride of ...	6, 391	„ cold-short ...	5, 205
„ and Sodium, protochloride of? ...	6, 390	„ Cuprocyanide ...	8, 7
„ and Sodium, sesquichloride of ...	6, 390	„ Cyanides, compounds of ...	7, 423
„ and Tin, alloy of ...	6, 391	„ Disulphide ...	5, 227
<i>Iris florentina</i> , acrid soft resin of the root of ...	17, 449	„ Ethylsulphite ...	8, 410
„ „ camphor of ...	14, 372	„ Eugenate ...	14, 206
Inte ...	6, 425	„ Fluorides ...	5, 256
Iron, Acetates ...	8, 320	„ with Fluxes ...	5, 272
„ Acetates, action of heat on ...	10, 512	„ Gallate ...	12, 410
„ Alloys ...	5, 315	„ -glance ...	5, 194
„ Amalgam ...	6, 128	„ -greening tannic acids ...	15, 451
„ Ammonio-protochloride ...	5, 262	„ Hydrated Cyanides of ...	7, 435, 437
„ Ammonio-sesquichloride ...	5, 263	„ Hydrothiosulphocyanide ...	8, 101
„ Amylosulphate ...	11, 59	„ Iodides ...	5, 247
„ Antimonide ...	5, 310	„ Iodo-aurate ...	5, 246
„ -apatite ...	5, 302	„ Lecanorate ...	12, 379
„ Argentocyanide ...	8, 31	„ Magnetic Oxide of ...	5, 190
„ arsenical ...	5, 304	„ magnetisation of, by the electric current ...	1, 307
„ Arsenides ...	5, 303	„ malleable ...	5, 205
„ association of arsenic and copper with ...	4, 250	„ Manganide ...	5, 300
„ Auurocyanide ...	8, 42	„ Meconates ...	12, 429
		„ meteoric ...	5, 395
		„ meteoric, Cobalt in ...	5, 316
		„ meteoric, Nickel in ...	5, 355
		„ Molybdeide ...	5, 297
		„ -nickel-pyrites ...	5, 396
		„ Nitride ...	5, 257
		„ Nitroprusside ...	8, 133
		„ Nitrosacetylalate ...	12, 310
		„ Oleate ...	17, 72
		„ -ore, blue ...	5, 224
		„ -ore, brown ...	5, 196
		„ -ore, manganiferous magnetic ...	5, 300
		„ -ore, spathic ...	5, 219
		„ -ore, yellow ...	5, 286

Iron-ores, occurrence of humus in	17, 460	Iron-stone, lenticular grey	5, 284
„ -ores and slags, vanadium in	4, 81	„ -stone, red	5, 194
„ Oxides	5, 184	„ Styphnate	11, 234
„ Oxides, compounds of, with cane-sugar	15, 290	„ Suboxide	5, 187
„ passive state of	1, 355	„ Sulphides	5, 224
„ passive state of, explanation of	1, 360	„ Sulphocyanides	12, 499
„ Peroxide	5, 194	„ Sulphovinates	8, 427
„ Per-salts of	5, 198	„ Tantalide	5, 392
„ Phosphide	5, 222	„ Tartrovinat	10, 342
„ Platino-platinidecyanide	8, 55	„ Telluride	5, 312
„ Proto-arsenide of, with Bi-sulphide of Iron	5, 309	„ Thiacetate	13, 449
„ Protochloride	5, 251	„ Titamide?	5, 289
„ Protoeyanide	7, 430, 13, 407	„ Titaniferous	5, 289
„ Protofluoride of, with Monohydrofluat of Ferrous oxide	5, 256	„ Uranide?	5, 300
„ Rhodizonate	10, 403	„ wrought	5, 205
„ Triiodide	5, 247	„ and Aluminium, alloy of	5, 275
„ Protosalts of	5, 188	„ and Aluminium, carbide of	5, 276
„ Protosulphide	5, 228	„ and Ammonium, protochloride of	5, 263
„ Pitoxide	5, 187	„ and Ammonium, sesquichloride of	5, 263
„ Prusside	7, 429	„ and Barium, alloy of	5, 273
„ Pyrites	5, 232	„ and Barium, sulphide of	5, 273
„ reactions of	5, 188, 194, 198	„ and Bismuth, cyanides of	7, 489
„ red Oxide	5, 194	„ and Cadmium, cyanides of	7, 490
„ reduced by Hydrogen, effect of, in inducing the combination of Hydrogen and Oxygen	2, 58	„ and Calcium, sulphide of	5, 274
„ reduced from the Peroxide by Hydrogen, reaction of, with Nitric acid	1, 360	„ and Cerium, carbide of	5, 274
„ refined	5, 205	„ and Chromium, carbide of	5, 300
„ rust	5, 196	„ and Chromium, cyanides of	7, 487
„ -salts, see Ferric and Ferrous salts.		„ and Cobalt, alloy of	5, 354
„ -salts, solubility of, in Alcohol	8, 271	„ and Copper, alloy of	5, 489
„ Scale-oxide	5, 190	„ and Copper, carbide of	5, 489
„ Selenide	5, 246	„ and Copper, sulphantimoniate of	5, 492
„ Selenocyanide	8, 124	„ and Copper, sulphide of	5, 489
„ Sesquichloride	5, 253	„ and Copper, sulphostannate of	5, 496
„ Sesquicyanide	7, 448	„ Copper, and Zinc? alloy of	5, 496
„ Sesquifluoride	5, 256	„ and Glucinum, alloy of	5, 274
„ Sesquifluoride of, with Bi-fluoride of Titanium	5, 292	„ and Glucinum, carbide of	5, 275
„ Sesquioxide	5, 194	„ and Gold, alloy of	6, 245
„ Sesquisulphide	5, 231	„ and Gold, carbide of	6, 246
„ Silicate of protoxide of, with Silicate of Alumina	3, 420	„ and Lead, alloy of	5, 315
„ Silicate	5, 277	„ and Magnesium, alloy of	5, 274
„ -spar	5, 219	„ and Manganese, cyanides of	7, 488
„ Specular	5, 194	„ and Manganese, carbide of	5, 301
„ stone, blue	5, 280	„ and Mercury, bromide of	6, 129
		„ „ chloride of	6, 129
		„ „ iodide of	6, 129
		„ and Molybdenum, cyanides of	7, 487
		„ and Nickel, alloys of	5, 394
		„ „ carbide of	5, 396
		„ „ sulphide of	5, 396
		„ and Palladium, alloy of	6, 357
		„ „ carbide of	6, 357
		„ and Platinum, alloy of	6, 336
		„ „ carbide of	6, 336

Iron and Potassium, alloy of	5, 264	Isatilm	..	13, 114
" " antimonide		Isatimide	..	13, 114
" " of	5, 312	Isatin	..	13, 51
" " bismuthide		Isatosulphates	..	13, 57
" " of	5, 312	Isatosulphurous acid	..	13, 56
" " boride of	5, 263	Isatyde	..	13, 98
" " ferrieyanide		Iserine	..	5, 291
" " of	7, 477	Isethionate of ammonia, prepara-		
" " ferrocyanide		tion of Taurine from	..	9, 285
" " of	7, 474	Isethionates, metallic	..	8, 428
" " protochlor-		Isethionic acid	..	10, 518
" " ide of	5, 271	Isobiglycoethylenates	..	15, 234
" " protofluo-		Isobintramidin	..	15, 111
" " ride of	5, 271	Isocajputene	..	14, 511
" " sesquichlo-		Isocetic acid	..	16, 365
" " ride of	5, 271	Iso-dimorphous compounds	..	1, 99
" " sesquifluo-		Isodulcite	..	16, 535
" " ride of	5, 271	Isomerism	..	1, 108
" " sulphide of	5, 268	" in organic compounds	7, 66	
" and Quinine, sulphate of	17, 284	Isomorphism	..	1, 87—93
" and Rhodium, carbide of	6, 368	" importance of, in		
" and Silicium, carbide of	5, 288	the determination		
" " protofluoride		of atomic weights	1, 48	
" " of	5, 288	" polymeric	..	1, 93
" and Silver, alloy of	6, 195	<i>Isonandra Gutta</i> , gutta percha		
" " carbide of	6, 196	obtained from	..	17, 337
" " sulphide of	6, 196	Isontramidin	..	15, 106
" and Sodium, sulphide of	5, 272	Isoprene	..	14, 331
" and Tin, alloy of	5, 314	Isotartaric acid	..	10, 330
" " carbide of	5, 315	Isotartarate of Ammonia	..	10, 331
" " cyanides of	7, 490	" Baryta	..	10, 332
" and Zinc, cyanides of	7, 489	" Copper	..	10, 333
Iron and Tungsten, carbide of	5, 297	" Lead	..	10, 332
" and Uranium, cyanides of	7, 488	" Lime	..	10, 332
" and Vanadium, cyanides of	7, 487	" Potash	..	10, 332
" and Zinc, alloy of	5, 312	" Silver	..	10, 333
" " carbide of	5, 314	Isoterebenthene	..	14, 271
Irradiation, phosphorescence by	1, 193	Itaconanilic acid	..	11, 324
Isamates	..	Itaconanilide	..	11, 369
Isamic acid	..	Itaconates	..	10, 426
Isamide	..	Itaconic acid	..	10, 424
Isatin	..	Ittnerite	..	3, 456
Isatates	..	Ivy-resin	..	17, 415
Isatic acid	..	Ixolyte	..	17, 439
Isatides, metallic	..			

J.

Jacobi's electrottype process	1, 502	Jalappin, <i>see</i> Jalapin.	
Jaguar's lard	16, 392	Jalap-root, tuberose, resin soluble	
Jalapic acid	16, 408	in ether obtained from	16, 159
Jalapin	15, 345; 16, 405	Jamaicine	17, 314
Jalapinol	16, 404	Jamamay silk	16, 364
Jalapinolote of Ethyl	16, 408	" colouring matter	
Jalapinolates, metallic	16, 402	of	16, 368
Jalapinoic acid	16, 400	Jamesonite	5, 176
Jalappic acid, <i>see</i> Jalapic acid.		Japan wax	16, 393

Japan wax, composition of	7, 238	Jelly from pine-needles	13, 239
„ preparation of palmitic acid from	16, 353	„ of silk	18, 366
Japonic acid	12, 394	„ from <i>Syringa vulgaris</i>	15, 412
Jasmin-camphor	14, 372	„ vegetable	15, 393
Jasper	3, 352	„ from Yellow Pods	15, 412
<i>Jatropha Curcas</i> , acrid resin of	17, 449	Jervine	18, 147
„ oil of	17, 140	Jews, chemical knowledge of	1, 3
„ ricinoleic acid		Jongul, oil of	14, 373
„ in the oil of	17, 131	<i>Juglans regia</i> , oil from the seeds of	16, 313
„ <i>glauca</i> , oils of	17, 141	Juniper-berries, oil of	14, 292
„ <i>glandulifera</i> , oils of	17, 141	„ resins of	17, 449
Jaulingto	17, 438	Juniper-camphor	14, 295
<i>Jaune brillant</i>	5, 57	Juniperin	17, 449
Jaundiced urine, green pigment from	18, 80	<i>Junkerte</i>	5, 219
Jelly from pine-bark	13, 240	<i>Jupiter</i> , syn. of Tin	5, 66

K.

Kaempferide	18, 230	Kinate of Mercury	16, 233
Kalate	3, 309	„ Morphine	16, 436
Kali	3, 10	„ Nickel	16, 232
Kalium	3, 3	„ Potash	16, 227
Kane's Amidogen theory	2, 429	„ Quinine	17, 294
Klant's theory of the nature of Matter	1, 159	„ Silver	16, 233
Kaolin	3, 419	„ Soda	16, 228
Kapnite	5, 16	„ Strontia	16, 228
Karpholite	4, 245	„ Zinc	16, 230
Katechin	12, 388	Kinhydrone	11, 164
Kawaine	18, 196	Kinic acid	16, 222
Kawallier's resin from <i>Pinus sylvestris</i>	15, 34	„ decompositions of	16, 225
Kelp	3, 78	„ preparation of	16, 223
„ preparation of Iodine from	2, 249	„ properties of	16, 224
Kepler	1, 4	„ sources of	16, 223
Keratin	18, 348	Kinic ether	16, 234
Kermes, Mineral	4, 340	Kinide	16, 234
Ketones	7, 44, 214	Kinotannic acid	15, 525
Kibdelophane	5, 290	Kinone	11, 158
Kidney-beans, Alkaloid prepared from, by Stenhouse	10, 408	Kino-red	15, 327
Kilbrickenite	5, 175	Kinova bitter	18, 26
Kinamid	16, 285	Kinovutannic acid	15, 346
Kinate of Ammonia	16, 227	Knovates	18, 25
„ Baryta	16, 228	Knovic acid	18, 24
„ Cadmium	16, 230	Kinovin	15, 345, 18, 26, 86
„ Cinchonidine	17, 227	„ compounds of, with metallic oxides	18, 29
„ Cinchonine	17, 220	„ -sugar	15, 345
„ Cobalt	16, 232	Kinovous acid	15, 32
„ Copper	16, 232	Kircher	1, 4
„ Ethyl	16, 234	Klaproth: his mineralogical researches	1, 5
„ Iron	16, 231	<i>Klaprothium</i> , syn. of Cadmium	5, 52
„ Lead	16, 230	Klumlene	8, 150
„ Lime	16, 229	Knebelite	5, 279
„ Magnesia	16, 230	Knoblauch's experiments on radiant heat	1, 214
„ Manganese	16, 230	Kopp's atomic volumes, method	

of reducing, to atomic numbers ...	1, 74	Krantzite	17, 439
Kopp's law of the boiling points of organic compounds	7, 56	Krokydolite ..	5, 281
Koussin	18, 123	Kryolite ..	3, 326
<i>Kramera triandra</i> , Tannic acid from ..	15, 529	Kunkel ..	1, 4
		Kunkel's Phosphorus ..	2, 102
		Kyanethme ..	13, 236
		Kyamsing of Wood ..	7, 116

L.

Labdanum or Ladanum	17, 422	Lactic acid, anhydrous ..	11, 435, 501
Labrador ..	3, 436	Lactic fermentation ...	7, 98
Laburnum	18, 196	Lactide ..	11, 435
<i>Lac sulphuris</i> ..	2, 159	Lactan ..	15, 217
Laccin ...	17, 420	Lactocaramel ..	15, 228
<i>Lacerta agilis</i> , phosphorescence of the eggs of ..	1, 183	Lactone ?	11, 197
Lactamate of Ammonium ...	11, 471	Lactoprotein ..	18, 318
Lactamic acid ..	11, 471	Lactose ..	15, 217, 227
Lactamide (of Pelouze) ...	11, 471	Lactous fermentation ..	15, 276
Lactates ..	11, 480	Lactucarium ...	16, 275
Lactate of Alumina ...	11, 486	Lactucern ..	16, 274
„ Ammonia ..	11, 481	Lactucic acid ..	16, 278
„ Baryta	11, 481	Lactucin ..	16, 276
„ Bismuth	11, 487	Lactucopicroin ..	16, 278
„ Cadmium ..	11, 489	<i>Laëtra resinosa</i> , resin of ..	17, 422
„ Chromium	11, 486	Laevo-camphor ..	14, 350
„ Cobalt ..	11, 492	„ -camphoric acid	14, 463
„ Copper	11, 493	Lævoglucose ..	15, 335
„ Ethyl	11, 496	Lævoracemic acid ..	10, 365
„ Ethyl with Chloride of Calcium ..	11, 497	Lævotartaric acid	10, 365
„ Ferrous	11, 490	Lævulosan ..	15, 358
„ Ferric ...	11, 492	Lagoons, Tuscin, Boracic acid in the water of ..	2, 97
Lactates of Lead	11, 489	Lamellar zeolite ..	3, 447
Lactate of Lime	11, 482	Lamp without flame ..	8, 179, 210
„ Lime with Chloride of Calcium	11, 484	Lampblack, manufacture of ..	15, 159
„ Lime and Potash	11, 484	Lampic acid ..	8, 180
„ Lime and Soda	11, 485	<i>Lampyris</i> , phosphorescence of ...	1, 188
„ Magnesia	11, 485	<i>Lana philosophica</i> ...	5, 5
„ Manganese ..	11, 486	Langon balsam, volatile oil of	14, 373
„ Mercuric ..	11, 494	„ or Landsome balsam	17, 394
„ Mercurous ...	11, 494	Lantanuric acid ? ..	9, 445
„ of Nickel ...	11, 492	Lanthanum ..	3, 274
„ Potash	11, 481	„ Acetate ..	12, 512; 8, 303
„ Quinine ..	17, 292	„ Bromate ..	3, 279
„ Silver	11, 495	„ Chloride ..	3, 279
„ Soda	11, 481	„ Cinnamate	13, 275
„ Stannic	11, 489	„ Carbonate	3, 278
„ Stannous	11, 489	„ and Didymium, separation of, from cerium	3, 260, 275
„ of Strontia	11, 482	„ Hydrated oxide ...	3, 277
„ Uranium	11, 486	„ Nitrate ..	3, 279
„ Zinc	11, 488	„ Oxalate ..	9, 184
„ Zinc and Potassium ..	11, 488	„ Oxide	3, 275
„ Zinc and Sodium	11, 488	„ Peroxide ..	3, 278
Lactic acid ...	11, 472		

- Lanthanum, Phosphate ... 3, 278
 „ Salts ... 3, 277
 „ separation of, from didymium 3, 275, 280
 „ Sulphate . . . 3, 278
 „ Sulphide ... 3, 278
 „ Tartrate . . . 10, 291
 „ and Potash, Sulphate of . . . 3, 279
 Lanthopine „ 18, 197
Lapis causticus „ 3, 11
 „ *infernalis* „ 6, 170
 „ *lazuhi* ... 3, 457
 „ *specularis* 3, 201
 Laserpitin „ 18, 83
 Lasionite „ 3, 310
 Laskowski's researches on proteides „ 18, 253
 Lassaigue's sulphocyanogen? 3, 113
 Latent affinity . . . 1, 124
 „ heats of fusion, table of 1, 255
 „ heats of vapours, tables of 1, 283, 284
 „ and specific heats, relation between 1, 256
Lathyrus angustifolius, bitter principle of 18, 231
 Laudanum . . . 18, 197
 Laughing gas 2, 373
 Laurate of Ethyl . . . 15, 49
 Laurates, metallic . . . 15, 47
 Laurel fat 16, 393
 „ oil 12, 29
 „ oil of Guiana 14, 296
 „ resin of 17, 450
 „ turpentine camphor . . . 14, 296
 „ water . . . 12, 29
 „ water and Bitter Almond water, distinction between ... 12, 31
 „ water, valuation of ... 12, 30
 Laurent's Bromanchlonaph-tone, A . . . 14, 79
 „ Bromenchlonaph-tose, A 14, 78
 „ Bromides of Bronaphthin, ... 14, 34, 35
 „ Bromochloronaph-tune, B 14, 82
 „ *Bromure de Chlorébronaphthine* ... 14, 76
 „ Chlorébronaphthine 14, 78
 „ Chlorenbronaphthone, B . . . 14, 77
 „ Chloride of Naphthalin and Chlo-naphthine ... 14, 58
 „ *Chlorure de Chlo-naphthane* 14, 57
 Laurent's classification of organic compounds . 7, 23
 „ nucleus-theory 7, 18
 Lauric acid . . . 15, 43
 „ aldehyde ... 15, 43
 „ ether . . . 15, 50
 „ and Myristic acids, melting points of mixtures of . . . 16, 214
 „ and Stearic acids, melting points of mixtures of . . . 17, 113
 „ Myristic, and Palmitic acids, melting and solidifying points of mixtures of . . . 16, 364
 Laurin ... 15, 52
 Laurone 15, 50
 Laurostearin 7, 238, 15, 50
 Laurostearone 15, 50
Laurus Camphora, Camphor-oil from . . . 14
 „ *Camphora*, volatile oil of . . . 14, 356
 Lavender oil 14, 374
 „ water 7, 168
 Lavoisier's chemical discoveries 1, 5
 Law of residues, Gerhardt's 7, 76
 Laws of chemical combination 1, 39—64
 „ regulating the magnitude or strength of affinity ... 1, 143
 Lazulite . . . 3, 328
 Lead 5, 105
 „ Acetates ... 3, 310
 „ Acetate, basic . . . 13, 445
 „ Acetate of, with Hydrokinone 11, 162
 „ Acetate of, with Thionaphthamate of Lead . 14, 117
 „ Acetobenzoate ... 12, 42
 „ Acetokinate 16, 231
 „ Acetomyristate 16, 213
 „ action of water on 5, 114
 „ Ascinate . . . 18, 37
 „ Albuminate 18, 306
 „ Alloxanate 10, 166
 „ Alloys . . . 5, 181
 „ Alizarite . . . 14, 141
 „ Aloetate 12, 11
 „ Amalgam . . . 6, 126
 „ Amidobenzoate . 12, 146
 „ Amilate . . . 15, 100
 „ Ammonio-mucate ... 11, 508
 „ Ammonio-citrate 11, 456
 „ Ammonio-chloride 5, 159
 „ Ammonio-iodide 5, 159
 „ Amygdalate . . . 15, 430
 „ Amylomalate 11, 80

Lead, Amykophosphate ..	11, 51	Lead Caprate	14, 488
„ Amylosulphate ..	11, 59	„ Caprylate ..	13, 193
„ Amylosulphite ..	11, 53	„ Carbide? ..	5, 122
„ Amylotartrate ..	11, 82	„ Carbobenzoate ..	12, 48
„ Amyloxanthate	11, 61	„ Carbohydrokinovate ..	16, 238
„ Anacardate	17, 521	„ Carbolate ...	11, 152
„ Angelate ..	10, 415	„ Carbonates ..	5, 122
„ Anisate ..	13, 127, 585	„ Cerotate	18, 137
„ Antimoniate ..	5, 175	„ Cetrarate ...	17, 24
„ Antimonide ..	5, 174	„ Chehdonate ...	12, 419
„ Apocrenate ..	17, 470	„ Chlorate ..	5, 143
„ Apogluicate ..	13, 366	„ Chloride ..	5, 145
„ Arabate ..	15, 203	„ „ with arseniate of	
„ Argentiferous, cupellation		lead ..	5, 174
of ...	6, 133	„ „ with phosphate	
„ Argentiferous, treatment		of lead and	
of, by fractional crystal-		calcium ..	5, 164
lisation: <i>Pattinson's</i>		„ Chloriodide ..	5, 151
<i>process</i> ..	6, 133	„ Chlorisatate ..	13, 76
„ Argentocyanide ..	8, 31	„ Chlorite ..	5, 148
„ Arsenate ..	5, 173	„ Chlorobenzoates ..	12, 114
„ Arseniate of, with Chlo-		„ Chlorocarbonate ..	5, 148
ride of Lead ..	5, 174	„ Chlorofluicate ..	13, 129
„ Arsenide ...	5, 172	„ Chlorofluoride ..	5, 151
„ Arsenite	5, 173	„ Chlorophosphate	5, 149
„ Aspartate ..	10, 237	„ Chlorophosphite ..	5, 149
„ Aurocyanide	8, 42	„ Chlorosulphate ..	5, 150
„ Azophosphate ..	5, 158	„ Chlorosulphide ..	5, 150
„ Benate	17, 559	„ Chlorosulphomethylate ...	7, 302
„ Benzilate ..	12, 183	„ Cholate ..	18, 51
„ Benzoates ..	12, 41	„ Choloide ..	18, 55
„ Benzoglycolate	12, 68	„ Chromate ..	4, 105, 5, 169
„ Betuloretate ..	17, 404	„ Chromidcyanide?	7, 428
„ Bibasic acetate ..	8, 313	„ Chrysammate ..	12, 5
„ Bibromacetate ...	12, 535	„ Chrysamilate ..	12, 331
„ Bibromisate ..	13, 71	„ Chrysophanate ...	16, 175
„ Biethylophosphate	8, 402	„ Cimicate ..	16, 285
„ Bimethylophosphate ...	12, 483	„ Cinnamate ...	13, 276
„ Binitrobenzoate	12, 136	„ Cissotannates ...	15, 517
„ Binitrocarbolate	11, 208	„ Citraconate ...	10, 421
„ Bisulphetholate	12, 517	„ Citrates	11, 455, 456
„ Bisulphohydrokinovate	16, 242	„ Cobaltodcyanide	7, 495
„ Bisulphometholate ..	12, 485	„ Comenate ..	11, 387
„ Boheate ..	12, 474, 475	„ Convolvulate ..	16, 158
„ Borofluoride	5, 151	„ Convolvulinolate ...	16, 152
„ Boronitride? ..	5, 158	„ Copavitate ..	17, 327
„ Borosilicate ...	5, 165	„ Crenate ..	17, 468
„ Bromacetate ..	12, 533	„ Cuprocyanide ..	8, 7
„ Bromate	5, 145	„ Cyanate ...	8, 68
„ Bromerucate ..	17, 561	„ Cyanide	7, 427
„ Bromide	5, 144	„ Cyanurate ...	9, 454
„ Bromocarbonate ..	5, 145	„ Digitalate ...	16, 340
„ Bromopyromecconate	10, 446	„ -earth	5, 127
„ brown oxide of ..	5, 120	„ Elaudate ...	17, 77
„ Butyrate... ..	10, 86	„ Ellagate ...	16, 189
„ Caffetannate ..	15, 507	„ Eruicate	17, 551
„ Caincate ..	18, 146	„ Ethionate ...	8, 434
„ Callutannate	15, 515	„ Ethyl-compounds contain-	
„ Camphorate	14, 461	ing ..	9, 106

Lead Ethylophosphate ...	8, 401	Lead Metaphosphate ..	5, 131
„ Ethylosulphite ..	8, 410	„ Metatartrate ..	10, 329
„ Euchroate ...	10, 20	„ Molybdate ..	5, 167
„ Eugenate	14, 206	„ Molybdide ..	5, 167
„ Euxanthate ..	17, 534	„ Mucate ..	11, 508
„ Evernitate ..	16, 448	„ Myristate ..	16, 213
„ Extract of ..	8, 314	„ Naphthionate ..	14, 114
„ Ferrieyanide ...	7, 491	„ Nitramisate ..	13, 139, 586
„ Ferrocyanide ..	7, 490	„ Nitrate ..	5, 156
„ Filicate ..	16, 128	„ „ with fluoride of	
„ flowers of ..	5, 108	„ lead ..	5, 158
„ Fluoride ..	5, 151	„ Nitrite ..	5, 152
„ „ with nitrate of		„ Nitro-aspartate	10, 237
„ lead ..	5, 158	„ Nitrobenzoate ...	12, 126
„ Fulminurate ..	10, 560	„ Nitro-euxanthate ...	17, 538
„ Fumarate ..	10, 28	„ Nitrohippurate ..	12, 131
„ Gallate ..	12, 410	„ Nitrophthalate ..	13, 29
„ Gambodate ..	17, 418	„ Nitrosalicylate ..	12, 309
„ Gentianate ..	16, 181	„ Nitrosalicylite ..	12, 305
„ -glass ..	5, 166	„ Cenantate ..	12, 486
„ Glucate ..	13, 239	„ Ceanthylate ..	12, 453
„ Glycerate ..	13, 572	„ Oleate ..	17, 72
„ Glycolate ..	13, 437	„ Opanate ..	14, 429
„ Glyoxalate ..	12, 507	„ -ore, brown ..	5, 149
„ Gummarate ..	17, 245	„ -ore, conneous ..	5, 148
„ Hemipinate ..	14, 431	„ -ore, green ..	5, 149
„ Hippurate ..	12, 79	„ -ore, white ..	5, 126
„ Hyanate ..	18, 107	„ Osmamate	6, 421
„ Hydrothiosulphocyanide ..	8, 101	„ Osmiate ..	6, 421
„ Hydrous aluminate of ..	5, 165	„ Oxalates ...	9, 154
„ Hyoglycocholate	18, 105	„ Oxalonitrates ..	9, 155
„ Hypomtrate ..	5, 153	„ Oxatolyate ..	17, 154
„ Hypophosphite ...	5, 128	„ Oxides ..	5, 107
„ Hyposulphate ..	5, 135	„ -oxide, aqueous solution of	5, 114
„ Hyposulphite ..	5, 135	„ -oxide with Asparagine ..	10, 247
„ Iodate ..	5, 143	„ -oxide with cobaltid-	
„ Iodide ..	5, 140	„ cyanide of lead ..	7, 496
„ Iodopyromecconate ..	10, 444	„ -oxide with hypomtric	
„ Isobglycoethylenate ...	15, 237	„ acid ...	2, 386
„ Isotartrate ..	10, 332	„ -oxide with cupric oxide	5, 485
„ Jalapate ..	16, 410	„ -oxide with cuprous oxide	5, 484
„ Jalapinolate ..	16, 402	„ -oxide expansion of, on so-	
„ Knate	16, 230	„ lidifying from fusion ...	1, 256
„ Lactates ...	11, 489	„ -oxide, fused, electrolysis	
„ Lecanorate ...	12, 379	„ of ..	1, 459
„ Leucate ...	15, 61	„ -oxide, hydrate of	5, 113
„ Lichenate ..	16, 196	„ Oxybromide ...	5, 144
„ Linolate ...	16, 308	„ Oxychlondide	5, 146
„ Lithofollate ...	17, 377	„ Oxyeyanide ...	7, 427
„ Malate	10, 223	„ Oxyfluoride ..	5, 151
„ Maleate ..	8, 158	„ Oxy-iodide ..	5, 141
„ Mandelate ..	12, 59	„ Oxysulphocyanide ..	8, 88
„ Manganicyanide ..	7, 428	„ Oxyurate ..	10, 171
„ Maunitates ..	15, 383	„ Oxyxanthate	8, 463
„ Meconate ..	12, 428	„ Palmitates	16, 362
„ Mellitate ...	10, 8	„ Parellate ...	16, 299
„ Mellonide ...	9, 393	„ Pectate ...	15, 408
„ Mercaptide ..	8, 345	„ Perchlorate ...	5, 148
„ Mesaconate ..	10, 430	„ Periodate ...	5, 144

Lead Peroxide	5, 120	Lead Styphnate	11, 284
„ Persulphocyanide ...	8, 107	„ Suberate	13, 210
„ Persulphonolybdate ...	5, 168	„ Suboxide ?	5, 107
„ Phloretate ...	13, 311	„ Succinate	10, 124
„ Phosphate . . .	5, 180	„ Sucrates . . .	15, 288
„ Phosphate with Hydrate		„ Sugar of . . .	8, 816
of Alumina	5, 165	„ Sulphacetate	8, 487
„ Phosphide	5, 128	„ Sulphamidonate ..	15, 105
„ Phosphite . . .	5, 129	„ Sulphanisate ..	13, 128
„ Phosphonitrate ...	5, 158	„ Sulphantimomate ...	5, 177
„ Phthalate	13, 13	„ Sulphantimonite ...	5, 175
„ Picramate	11, 245	„ Sulpharsenate ..	5, 174
„ Picrates ...	11, 223	„ Sulpharsenite	5, 174
„ Pimarate ..	17, 324	„ Sulphate . . .	5, 136
„ Pipitzahoate . .	16, 265	„ Sulphate, with Fluor-spar	5, 164
„ Platino-platinocyanide .	8, 55	„ Sulphocarbonate ..	5, 138
„ Propionate	10, 555	„ Sulphetherate . .	10, 519
„ Protoxide . . .	5, 108	„ Sulphides ..	5, 132
„ Protoxide, solution of, in		„ Sulphindigotate . .	13, 64
volatile oils . .	7, 168	„ Sulphite . . .	5, 135
„ Protosulphide . .	5, 132	„ Sulphobenzozate . .	12, 55
„ Purpurate ...	10, 199	„ Sulphobismuthate	5, 179
„ Pyrogallate	11, 401	„ Sulphocacodylate,	9, 338
„ Pyroguaiacate	12, 352	„ Sulphocamphorate . .	13, 380
„ Pyrolivilate	14, 207	„ Sulphocaprylate ..	13, 197
„ Pyromeconate . .	10, 442	„ Sulphocarbonate ..	5, 138
„ Pyromellitate ...	10, 15	„ Sulphocyanide . . .	8, 87
„ Pyromucate . .	10, 385	„ Sulphomesitylo-sulphate ..	9, 30
„ Pyrophosphate ...	5, 131	„ Sulphomethylate ...	7, 306
„ Pyrotartrate ...	11, 94	„ Sulphomolybdate, ...	5, 168
„ Racemate . . .	10, 357	„ Sulphosalicylate . .	12, 280
„ reactions of ...	5, 115	„ Sulphosomethylate ...	7, 300
„ red oxide....	5, 118	„ Sulphosuccinate . .	10, 131
„ refined	5, 106	„ Sulphotellurite	5, 178
„ Retene-bisulphate . .	17, 13	„ Sulphotoluate	12, 231
„ Rhodizonate	10, 403	„ Sulphotungstate	5, 167
„ Ricinelaideate	17, 137	„ Sulphovinate	8, 425
„ Ricinoleate . . .	17, 134	„ Sylvate	17, 322
„ Rocoallate	16, 477	„ Tannates	15, 467
„ Ruberythrate ...	16, 43	„ Tartrate	10, 312
„ Rubianate	16, 41	„ Tartrelate	10, 337
„ Rubichlorate ...	16, 68	„ Tartromethylate	10, 339
„ Saccharates ...	11, 520	„ Tartrovinate	10, 342
„ Salicylate . . .	12, 252	„ Tanrocholate	18, 68
„ Salicylite ..	12, 243	„ Tellurate ...	5, 178
„ Santalate . .	16, 261	„ Telluride ...	5, 177
„ -salts . . .	5, 115	„ Tellurite . . .	5, 178
„ Sarcocactate ...	11, 500	„ Terchlorofillate	16, 130
„ Sebate	14, 498	„ Terebentilate	13, 119
„ Selenide	5, 139	„ Terechryssate ...	11, 425
„ Selenite	5, 139	„ Tetrathionate ..	5, 135
„ Selenocyanide	8, 124	„ Thiocyanide	8, 114
„ Sesquioxide ?	5, 120	„ Thionaphthamate ...	14, 117
„ Silicate . . .	5, 165	„ Thionurate	10, 185
„ Silicide . . .	5, 165	„ Trithionate	5, 135
„ Silicofluoride . .	5, 166	„ Tungstide	5, 166
„ -spar	5, 126	„ Uranate	5, 172
„ Stannate	5, 160	„ Urate	10, 476
„ Stearate	17, 111	„ Uroxanate	10, 479

Lead Valerate	11, 34	Lead and Potassium, Arsenide of	5, 174
„ Vanadate	4, 81; 5, 168	„ and Potassium, Bromide of	5, 162
„ -vinegar	8, 314	„ and Potassium, Tartrate of	10, 313
„ Viridate	15, 511	„ and Potassium, Hyposulphite of	5, 160
„ -vitriol	5, 136	„ and Potassium, Sulphate of	5, 161
„ white	5, 123	„ and Rhodium, alloy of	6, 368
„ Xanthate	8, 457	„ and Silver, alloy of	6, 194
„ and Ammonium, Chloride of	5, 160	„ and Silver, Cyanate of	9, 458
„ and Ammonium, Hyposulphite of	5, 158, 159	„ and Silver, Hyposulphite of	6, 195
„ and Ammonium, Iodide of	5, 161	„ and Silver, Oxide of	6, 195
„ and Ammonium, Malate of	10, 224	„ and Silver, Sulphide of	6, 195
„ and Ammonium, Sulphate of	5, 159	„ Silver, and Antimony, Sulphide of	6, 195
„ and Ammonium, Tartrate of	10, 313	„ and Sodium, alloy of	5, 162
„ and Antimony, Amalgam of	6, 127	„ and Sodium, Bromide of	5, 163
„ and Antimony, Tartrate of	10, 313	„ and Sodium, Carbonate of	5, 162
„ and Barium, Chloride of	5, 163	„ and Sodium, Chloride of	5, 163
„ and Barium, Sulphide of	5, 163	„ and Sodium, Hyposulphite of	5, 162
„ and Barium, Hyposulphate of	5, 163	„ and Sodium, Iodide of	5, 163
„ and Bismuth, amalgam of	6, 127	„ and Sodium, Sulphate of	5, 163
„ and Bismuth, alloy of	5, 178	„ and Sodium, Sulphide of	5, 162
„ Bismuth and Tin, alloys of	5, 180	„ and Strontium, Hyposulphite of	5, 164
„ and Cadmium, Cyanide of	7, 428	„ and Tantalum, Fluoride of	5, 166
„ and Calcium, Carbonate of	5, 164	„ and Tin, alloys of	5, 179
„ and Calcium, Hyposulphite of	5, 164	„ and Tin, Amalgam of	6, 127
„ and Chromium, Tartrate of	10, 313	„ and Tin, Antimonide of	5, 180
„ and Copper, Chromate of	5, 486	„ Tin, and Bismuth, Amalgam of	6, 128
„ and Copper, Hyposulphate of?	5, 485	„ Tin, and Zinc, alloys of	5, 181
„ and Copper, alloys of	5, 484	„ and Titanium, Fluoride of	5, 166
„ and Copper, Antimonide of	5, 487	„ and Uranium, Acetate of	8, 320
„ and Copper, Selenide of	5, 485	„ and Zinc, alloy of	5, 179
„ and Copper, Sulphide of	5, 485	„ and Zinc, Cyanide of	7, 428
„ Copper, and Antimony, Sulphide of	5, 487	„ and Zinc, Malate of	10, 224
„ Copper, and Bismuth, Sulphide of	5, 488	„ and Zirconium, Silicate of	5, 166
„ Copper, Tin, and Zinc, alloy of	5, 488	Lead chamber crystals	2, 451
„ and Gold, alloy of	6, 245	Leadhillite	5, 138
„ and Hydrogen, Iodide of	5, 142	Leaf-green	17, 3
„ and Iridium, alloy of	6, 392	„ -red	17, 1
„ and Iron, alloy of	5, 315	„ -yellow	16, 515
„ and Manganese, compounds of	5, 172	Leather, tanned	15, 473
„ and Mercury, Cyanide of?	8, 24	Leaves, resinous yellow of	16, 515
„ and Mercury, Selenide of	6, 127	„ wax of	18, 157
„ and Nickel, alloy of	5, 394	Leblanc's Soda process	3, 79
„ and Palladium, alloy of	6, 357	<i>Lecanora Montagnei</i> , preparation of Erythroglycine from	12, 385
„ and Platinum, alloy of	6, 385	„ <i>tartarea</i> , preparation of Erythric acid from	12, 382
„ and Potassium, alloy of	5, 160	„ <i>tartarea</i> , preparation of Litmus from	12, 365
		Lecanorate of Ethyl	12, 372
		„ Methyl	12, 372

Lecanorates, metallic	12, 379	Lichenic or Lichenstearic acid..	16, 195
Lecanoric acid	12, 377	Lichenm	15, 119
Lecanorin	12, 377	„ formation of Dextroglu-	
Lecithine	16, 484, 18, 374	„ cose from	15, 308
Ledererite	3, 439	Lichen-red	12, 358
Leditannic acid	15, 527	Lichens, occurrence of Usnic	
Ledum-camphor	14, 377	acid in	17, 48
<i>Ledum palustre</i> , Ericolin in . .	16, 28	Lichen-starch	15, 119
„ preparation of		Liebethenite	5, 419
„ Ericolin from	16, 29	Liebig's condenser	1, 288
„ volatile oil of .	16, 30	„ theory of fermenta-	
Legumin of almonds	18, 438	„ tion	7, 109
„ oats	18, 437	Liebigite	4, 190
„ peas, beans, &c	18, 427	Light-absorbers	1, 193
Leidenfrost's Experiment . .	1, 277	Light, absorption of	1, 165
Leirochroite	5, 472	„ carburetted Hydrogen ..	7, 249
Lemery, Nicholas	1, 4	„ chemical effects of . .	1, 170
Lemon-camphor	14, 302	„ chemical relations of .	1, 165
„ juice, preparation of		„ and colour spectrum .	1, 180
„ citric acid from	11, 437	„ crystallisation accompa-	
„ oil	14, 297	„ med by	1, 15
„ oil, Hydrate of	14, 300	„ decompositions produced	
„ oil, Hydrochlorates of ..	14, 300	„ by	1, 172
Lenticular Grey Ironstone . .	5, 284	„ development of, accom-	
Lentils, composition of legumin		„ panying eremacausis	7, 92
from	18, 480	„ development of, after ex-	
Lenznite, earthy	3, 416	„ posure to light	1, 193
Leonhardite	3, 446	„ development of, as a con-	
Lepargylic acid	13, 374	„ sequence of actual che-	
Lepidine	14, 103	„ mical combination . .	1, 181
<i>Lepidum sativum</i> , oil from the		„ development of, as a con-	
seeds of	16, 315	„ sequence of probable	
Lepidokrokite	5, 197	„ chemical combination ..	1, 181
Lepidolite	3, 461	„ development of, by heat	
Lepidomelane	5, 287	„	1, 166, 169
Lerp-manna, preparation of Inu-		„ development of heat by	1, 165
lin from	15, 114	„ development of, by me-	
Lethal	15, 43	„ chanical force	1, 202
Lettuce-fat	16, 274	„ development of, by pon-	
Leucates, metallic	15, 60—63	„ derable substances . .	1, 181
Leucazolittum	12, 367	„ development of, unac-	
Leucene, Sulphide of	10, 394	„ companied by any al-	
Leucic acid	15, 536	„ teration in the ponder-	
Leucine	11, 425	„ able matter of bodies .	1, 193
„ copulated acid produced		„ double refraction of . .	1, 164
„ by, with nitric acid . .	7, 226	„ Drummond's	2, 29
„ Hydrochlorate	11, 431	„ effect of, in assisting	
„ metallic compounds of	11, 432	„ eremacausis	7, 95
Leucite	3, 438	„ effect of, on chloride of	
Leucoharmine, <i>see</i> Harmine.		„ silver	1, 173
Leucol	13, 243	„ effect of, in inducing the	
Leucopetrin	17, 444; 18, 244	„ combination of oxygen	
Leucophane	3, 411	„ with other bodies . .	2, 24
Leucorcein	12, 363	„ effect of, in inducing the	
Leucoturic acid	9, 444	„ decomposition of car-	
Levyne	3, 441	„ bonic acid by the green	
Leyden Jar	1, 318	„ parts of plants	1, 172
Libavins	1, 4	„ effect of, on a mixture of	
„ fuming spirit of	5, 87	„ chlorine and hydrogen	1, 170

Light emitted by charcoal at the poles of the voltaic battery	1, 316	Lagustrin	16, 163
" grey copper	5, 492	Lagustrone	16, 164
" hydrochloric ether	8, 368	<i>Lagustrum vulgare</i> , colouring matter of the berries of	16, 530
" influence of, on combination	1, 36	Lakene	10, 411
" influence of, on decomposition	1, 115	Lilac oil	14, 374
" inflexion of	1, 164	<i>Lilium croceum</i> , wax from pollen of	18, 160
" machine, Doberciner's instantaneous	2, 50, 57	" <i>bulbyferum</i> and <i>chalcedonicum</i> , emission of light by the flowers of	1, 187
" magnets	1, 193	Lily of the Valley, camphor of	14, 378
" memoirs relating to	1, 161	Limacin	18, 345
" metals	3, 2	<i>Limax agrestis</i> , mucus of	18, 344
" oil of coal-tar	11, 135	Linne	3, 181
" oil of wine	13, 175	" Acetate	8, 302
" oil of wood-tar	15, 152	" Acetate with Chloride of Calcium	8, 302
" physical properties of	1, 163	" Aconitales	11, 406
" polarization of	1, 164	" Alizamate	14, 140
" produced by sudden compression of water	2, 62	" Alloxamate	10, 164
" radiation of	1, 161	" Althonate	8, 432
" red silver	6, 188	" Aluminate	3, 327
" reflection of	1, 161	" Annobenzoate	12, 146
" refraction of	1, 161	" Amilate	15, 100
" relation of, to electricity	1, 167	" Amydulate	15, 429
" relation of, to heat	1, 165	" Amylomalate	11, 80
" relation of, to magnetism	1, 167	" Amylosulphate	11, 57
" relations of, to organic compounds	7, 64	" Amylosulphite	11, 53
" relations of, to ponderable bodies	1, 170	" Amyloxalate	11, 73
" sudden emission of, by certain yellow flowers	1, 187	" Anacardate	17, 521
" and Heat, cause of the development of, in combustion	2, 36	" Angelate	10, 415
" and Heat, development of, in the combination of oxygen with other bodies	2, 27	" Anisate	13, 126, 585
" and Heat, relations between	1, 165	" Anthramilate	12, 329
" and Heat, theories of the relation between	1, 167	" Antimonate	4, 389
Lignin	15, 148	" Antimonite	4, 389
Ligute, distillation of	15, 151	" Antitarrate	10, 368
" formation of	15, 158	" Apogluate	13, 366
" humous substances from	17, 476	" Asabate	15, 202
" resins from	17, 437	" Arseniate	4, 304
" of Weissenfels, resins from	17, 443	" Arsenite	4, 302
Ligno-humic acid	17, 474	" with Asparagme	10, 216
Lignoin	15, 484	" Aspartate	10, 235
Lignone	9, 41	" Arachidate	17, 371
" products of decomposition of	9, 47	" Atropate	16, 549
Lignosulphates	15, 164	" Aurate with Chloride of Calcium	6, 234
		" Benzoate	12, 39
		" Benzoglycolate	12, 67
		" Diethylophosphate	8, 402
		" Dimethylophosphate	12, 483
		" Dimtroethylate	12, 557
		" Dimtrophoretate	13, 333
		" Bisulphohydrokinovate	16, 242
		" Bisulphomethylate	12, 484
		" with blue oxide of Iridium	6, 391
		" Borate	3, 189
		" Borate and Silicate	3, 392

Lime, Bromacetate	12, 533	Lime, Hydrosulphite	3, 198
„ Bromate	3, 206	„ Hyoglycocholate	18, 105
„ Butyrate	10, 86	„ Hypobromite	3, 205
„ Camcate	18, 115	„ Hypochlorite	3, 208
„ Campholate	14, 454	„ Hypophosphite	3, 190
„ Camphorate	14, 460	„ Hyposulphite	3, 200
„ Caprate	14, 488	„ Hypo-sulphite	3, 199
„ Caproate	11, 417	„ Insolinate	13, 320
„ Carbobenzoate	12, 48	„ Iodate	3, 204
„ Carbolate	11, 152	„ Iodide	3, 203
„ Carbonates	3, 185	„ Isobiglycolethylenate	15, 235
„ Carbonate of, with Sul- phate of Soda	3, 217	„ Isotartrate	10, 332
„ Chelidonate	12, 417	„ Itaconate	10, 426
„ Chlorate	3, 212	„ Knate	16, 229
„ Chloride	2, 300; 3, 208	„ with Kinovin	18, 29
„ Chlorobenzoate	12, 114	„ Lactate	11, 482
„ Chlorocinnamate	13, 296	„ Lactate, with Chloride of Calcium	11, 484
„ Cholate	18, 51	„ Lencate	15, 61
„ Cholesterolate	13, 159	„ Imolate	16, 307
„ Chromate	4, 153	„ Liver of sulphur	3, 197
„ Chrysammate	12, 5	„ with Magnesia	3, 253
„ Cimicate	16, 285	„ Malate	10, 216
„ Cinnamate	13, 275	„ Maleates	8, 156
„ Citraconate	10, 421	„ Mannitate	15, 388
„ Citrates	11, 450, 451	„ Margarate	16, 362
„ Comenate	11, 386	„ Meconate	12, 428
„ Convolvulate	16, 158	„ Mercurate	6, 107
„ Copaivate	17, 327	„ Mesaconate	10, 430
„ Crenate	17, 468	„ Mesitylo-sulphate	9, 29
„ Croconate	10, 392	„ Metaphosphate	3, 196
„ with Cupric oxide	5, 463	„ Metatartrate	10, 329
„ Cyanate	8, 68	„ Methylolithionate	12, 488
„ Cyanurate	9, 454	„ Molybdate	4, 76
„ Diphosphate	3, 194	„ Mucate	11, 507
„ Diphosphite	3, 191	„ Naphthionate	14, 118
„ Ellagate	16, 189	„ Nicolate	5, 386
„ Ethionate	8, 434	„ Nitranisate	13, 138, 586
„ Ethylphosphate	8, 401	„ Nitrate	3, 214
„ Ethylsulphite	8, 409	„ Nitrate, alcoholate of	8, 267
„ Eugenate	14, 206	„ Nitrate, compound of, with Urea	7, 373
„ -flower oil	14, 378	„ Nitrite	3, 218
„ with Fluxes	3, 216	„ Nitrobenzoate	12, 125
„ Formate	7, 278	„ Nitrohippurate	12, 131
„ Fulminurate	10, 560	„ Nitrotoluylate	13, 23
„ Fumarate	10, 27	„ Oleate	17, 71
„ Gallate	12, 406	„ Oil of	14, 304
„ Glucate	13, 239	„ Osmiate	6, 421
„ Glycerate	13, 571	„ Oxalate	13, 517
„ Glycocholate	18, 60	„ Oxalates	9, 180
„ Glycolate	12, 507; 13, 436	„ Oxalate, with Chloride of Calcium	9, 132
„ Glyoxylate	12, 507; 13, 435	„ Oxamate	13, 536
„ Gurgunate	17, 546	„ Oxurate	10, 170
„ Hippurate	12, 78	„ Palladite ?	6, 355
„ Hyamate	18, 107	„ Pectate	15, 407
„ Hydrate	3, 182	„ Pelargonate	18, 370
„ Hydrate, electrolysis of	1, 458	„ Perchlorate	3, 212
„ Hydraulic	3, 391		
„ Hydropiperate	15, 13		

Lime, Periodate ..	3, 204	Lime, Sulphosalicylate	12, 279
" Permanganate ..	4, 242	" Sulphosuccinate	10, 131
" Permesitylo-sulphate ..	9, 30	" Sulphovinate	8, 423
" Phloretate ..	13, 311	" Superphosphate	3, 196
" Phosphates ..	3, 192	" Sylvate ..	17, 320
" Phosphuret ..	3, 189	" Tannate ...	15, 466
" Phthalate ..	13, 13	" Tantallate ..	4, 11
" Picrate ..	11, 222	" Tartramate	10, 344
" Piperate	15, 10	" Tartrate ..	10, 288
" Platinat ..	6, 328	" Tartrelate ..	10, 336
" Plumbite	5, 164	" Tartromethylate	10, 339
" poor and rich	3, 390	" Tartrovinat ..	10, 342
" and Potash, Chelidonate	12, 418	" Tellurate	4, 424
" Propionate	9, 406	" Tellurites	4, 424
" pure or fat, with Cement	3, 390	" Terchloracetate	9, 212
" Purpurate	10, 198	" Terebentilate ..	13, 119
" Pyromeconate ..	10, 441	" Thiacetate	13, 449
" Pyromucate ..	10, 385	" Thionaphthamate	14, 117
" Pyrophosphate	3, 196	" Titanate and Silicate	3, 488
" Pyrotartrate ..	11, 91	" Tungstate	4, 44
" Racemate	10, 353	" Triphosphate	3, 192
" Rhodiate ..	6, 367	" " with chlo-	
" Rhodizonate ..	10, 402	ride or fluoride of cal-	
" Racmeladate ..	17, 136	cium	3, 219
" Racmoleate ...	17, 134	" Uranate ..	4, 190
" Roccellate ..	16, 476	" Urate	10, 475
" Rubianate ..	16, 41	" Urovanate	10, 479
" Saccharates	11, 518	" Valerate ..	11, 33
" Salicylamate ...	12, 322	" Vanadates	4, 102
" Salicylate ..	12, 252	" -water ..	3, 183
" Salicylurate ..	12, 332	" Xanthate ..	3, 456
" -saltpetre....	3, 214	" Zirconate. .	3, 349
" -salts ..	3, 183	" and Ammonia, arsenate of	4, 306
" Santalate	16, 261	" " malate of	10, 219
" Sarcosylate ...	11, 500	" and Baryta, butyrate of ..	10, 86
" Sebate	14, 498	" " carbonate of	3, 218
" Selenite ..	3, 203	" " compound of	3, 218
" Silicates ..	3, 388	" " sulphate of	3, 218
" Silicate, with silicate of		" and Cadmic oxide, hypo-	
alumina	3, 420	phosphite of?	5, 64
" solubility of, in aqueous		" and Cerous oxide, car-	
glycerin	13, 568	bonate of	3, 274
" Stannate	5, 100	" and Cobalt-oxide, hypo-	
" Stearate	17, 111	phosphate of ..	5, 344
" Styphnate	11, 233	" and Cupric oxide, acetate	
" Suberate ...	13, 209	of ..	3, 328
" Succinate ..	10, 119	" and Ferric oxide, arsenate	
" Sucrates	15, 285, 539	of ..	5, 309
" Sulphate ...	3, 200	" and Ferric oxide, hypo-	
" " with fluoride of		sulphite of	5, 274
calcium. .	3, 220	" and Glucina, silicate of ..	3, 411
" Sulphetherate ..	10, 520	" and Lead-oxide, carbonate	
" with Sulphide of Calcium	3, 219	of ..	5, 164
" Sulphindigotate ..	13, 64	" and Lead-oxide, phosphate	
" Sulphite ...	3, 199	of, with chloride of lead	5, 164
" Sulphocyanphorate	13, 380	" and Lead-oxide, hyposul-	
" Sulphocaprylate	13, 197	phite of ..	5, 164
" Sulphocymenate ...	14, 191	" and Magnesia, arsenate of	4, 308
" Sulphophloretate....	13, 814	" " carbonate of	3, 253

Lime and Magnesia, hydrated borate of	3, 254	Lipic acid	10, 434
" " nitrate of	3, 254	Liquefaction of gases, produced by the affinity of ponderable bodies for the ponderable base of the gas	1, 289
" " silicates of	3, 401	" gases by external pressure and cooling	1, 285
" and Mercuric oxide, hypo-sulphite of	6, 107	" solids	1, 253
" and Potash, chromate of	4, 154	Liquid bodies, solution of, in water	2, 69
" " lactate of	11, 484	" compounds, table of specific heats of	1, 244
" " malate of	10, 219	" phosphide of hydrogen	2, 148
" " phosphate of	3, 215	<i>Liquid-ambar Altingia</i> , liquid storax obtained from	17, 391
" " silicate of	3, 393	Liquids, adhesion between	1, 27
" " sulphate of	3, 215	" cohesion of	1, 7
" " tartrate of	10, 289	" compressibility of	1, 257
" and Silver-oxide, hyposulphite of	6, 181	" dielectric properties of	1, 313
" and Soda, carbonate of	3, 215	" diffusion of	1, 28
" " lactate of	11, 485	" electric conducting powers of	1, 311
" " malate of	10, 219	" expansion of, by heat	1, 225
" " silicate of	3, 394	" formation of	1, 252
" " sulphate of	3, 217	" heat-conducting powers of	1, 223
" " tartrate of	10, 290	" organic, circular polarisation in	7, 64
" and Strontia, acetates of, with the uranic acetates	8, 308	" organic, refracting power of	7, 64
" and Strontia, carbonate of	3, 219	" regarded as formed by combination of heat with ponderable bodies	1, 252
" " compound of	3, 219	" rendered phosphorescent by compression	1, 205
" and Tantalum acid, hydrofluide of	4, 11	" specific heat of, according to Favre and Silbermann	1, 248
" and Uranic oxide, carbonate of	4, 190	" specific heat of, according to Regnault	1, 247
" and Uranic oxide, phosphate of	4, 191	" spheroidal state of (Leidenfrost's experiment)	1, 277
" and Uranic oxide, sulphate of	4, 191	" and Solids, adhesion between	1, 27
" and Zirconia, silicate of	3, 463	" and Solids, relations between the specific gravities and atomic weights of	1, 54, 68
Limestone	3, 185	<i>Liquor anodynus mineralis, Hofmanni</i>	8, 273
" artificial	3, 392	" <i>cornu cervi ounguentus</i>	10, 115
" mixtures of, with siliceous substances	3, 391	" <i>fumans Boylei</i>	2, 454
Lime-water	3, 183	" <i>nitri fixi</i>	3, 22
Limetic acid	14, 519	" <i>silicum</i>	8, 370
Limonin	17, 546		
Limonite	5, 225		
Linaracrin	18, 231		
Linarasin	18, 231		
Linarin	18, 231		
Linen, action of strong nitric acid on	15, 135		
" preparation of dextro-glucose from	15, 312		
Lines of magnetic force	1, 168		
Liniment	7, 244		
Linin	18, 231		
Linoleates	16, 307		
Linoleic acid	16, 305		
Linseed mucilage	15, 210		
" -oil	16, 308		
" " composition of	7, 237		
" " decoloration of, in sunshine	7, 96		

Liquorice-root, preparation of		Lithium	3, 122
Asparagine from	10, 241	" -amalgam	6, 105
" preparation of		" Chloride	3, 130
Glycyrrhizin		" Chloro-aurate	6, 233
from	17, 57	" Fluoride	3, 131
Liriodendrin	18, 232	" Iodide	3, 130
Luroconite	5, 473	" Peroxide	3, 127
Litharge	5, 106—109	" Persulphide	3, 129
Lithia	3, 122	" Platinosous quicyanide	12, 499
Acetate	3, 300	" salts, solubility of, in alcohol	3, 266
Alum	3, 326	" Sulpharsenate	4, 299
Benzoate	12, 39	" Sulpharsenite	4, 299
Borate	3, 128	" Sulphide	3, 128
Bromate	3, 130	" Sulphomolybdate	4, 74
Carbonate	3, 127	" Sulphotellurate	4, 423
Chlorate	3, 131	" and Aluminum, fluoride of	3, 327
Chromate	4, 153	" and Arsenic, compound of	4, 299
Citrate	11, 418	" and Boron, fluoride of	3, 131
crystallised	3, 126	" and Carbon, sulphide of	3, 129
Fulminate	10, 560	" and Hydrogen, fluoride of	3, 131
Hyposulphate	3, 129	" and Hydrogen, sulphide of	3, 128
Iodate	3, 130	" and Silicon, fluoride of	3, 387
Malate	10, 214	" and Sodium, compound of	3, 132
Mucate	11, 506	Lithofellic acid	17, 375
Nitrate	3, 131	Lithonarge	3, 417
Oxalates	13, 515, 9, 127	Lithmus, preparation of	12, 365
Perchlorate	3, 131	" preparation of colouring matters from	12, 363
Periodate	3, 130	Liver of Antimony	4, 355, 378, 383
Permanganate	4, 211	" Sulphur	3, 35, 97
Phosphate	3, 128	" Sulphur, volatile	2, 454
Rhodizonate	10, 401	Lobeline	18, 198
Salts	3, 126	Lobsters, colouring matter of	18, 420
Selenite	3, 130	Logwood, preparation of Hæmatoxylum from	16, 287
Silicate of, with Silicate of Alumina	3, 420	Lolun	18, 233
Solution	3, 126	Lomonite	3, 440
Sulphate	3, 129	Lopez-root, resins of the bark of	17, 450
Sulphite	3, 129	Lophine	12, 199
Sulphovinate	8, 421	" with Bichloride of Platinum	12, 203
Tartrate	10, 285	" with Nitrate of Silver	12, 201
Tellurates	4, 423	" Salts of	12, 201
Tellurites	4, 422	Luchs-sapphire	3, 434
Tungstate	4, 42	Luna, syn of Silver	6, 132
Urate	10, 473	Luna cornea	6, 162
Vanadate	4, 101	Lunar caustic	6, 170
and Alumina, phosphate of	3, 326	Lumbricus terrestris, phosphorescence of	1, 185
and Alumina, sulphate of	3, 326	Lumen philosophicum	2, 58
and Ammonia, phosphate of	3, 132	Luminosity	1, 181
and Ammonia, sulphate of	3, 132		
and Potash, tartrate of	10, 285		
and Soda, phosphate	3, 132		
and Soda, tartrate of	10, 285		
" mica	3, 461		
" tourmaline	3, 455		
Lithic acid	10, 456		
Lithio-antimonie Tartrate	10, 807		

Luminous appearances accompanying crystallisation	1, 206	Lutidine	12, 337
Lump-fish, colouring matter of	18, 421	<i>Lycopodon cerinum</i> , resin of	17, 450
Lupinin	18, 233	<i>Lycopodium</i> -bitter	16, 98
Lutein	18, 413	Lycotomine	18, 178
Luteohæmatoïdin	18, 413	Lycopin	18, 233
Luteolin	15, 28	<i>Lycopodium</i> , bitter	15, 346
		Lycosin	16, 99
		Lycostearone	16, 98

M.

Mace oil	14, 390	Magnesia, Aluminate of, with Silicate of Magnesia	3, 462
Madder-borneene from madder	14, 314	" Amdobenzoate	12, 146
" compounds produced by decomposition of the glucosides of, or existing ready formed in	16, 47	" Amylosulphate	11, 58
" preparation of Alizarin from	14, 133; 16, 33	" Arachidate	17, 371
" preparation of Purpurin from	13, 326	" Arsenate	4, 307
" preparation of Ruberythric acid from	16, 42	" Arsenite	4, 307
" preparation of Rubiacin from	16, 48	" Aspartate	10, 236
" preparation of Rubiacin, Rubiretin, and Veranitin from	16, 34	" Aurate	6, 234
" preparation of Rubiagin from	16, 54	" Aurate, with Chloride of Magnesium	6, 235
" preparation of Rubian from	16, 33	" Azelaate	17, 81
" preparation of Rubianic acid from	16, 39	" with Baryta?	3, 253
" preparation of Rubichloric acid from	16, 66	" Benzoate	12, 39
" -purple	13, 325	" Benzoglycolate	12, 67
" -red, extractive or resinous, see Alizarin.		" Biethylophosphate	8, 402
" root, Tannic acid from	15, 532	" Bi-hydroseleniate	3, 239
" substances existing ready-formed in	16, 33	" Bimethylophosphate	12, 483
" -yellow	16, 69	" Binitroethylate	12, 557
<i>Madia sativa</i> , oil from the seeds of	16, 315	" Borates	3, 230
Madic acid	16, 365	" Bromate	3, 241
Mafurra tallow	16, 393	" Butyrate	10, 86
<i>Magisterium Bismuthi</i>	4, 440	" Camphorate	14, 460
" <i>Plumbi</i>	5, 145	" Caprate	14, 488
<i>Magistral</i>	6, 134	" Caproate	11, 418
Magnesia	3, 222	" Carbonates	3, 226
" Acetate	3, 303	" Chelidonate	12, 418
" <i>alba</i>	3, 227	" Chlorate	3, 243
" Alloranate	10, 165	" Chromate	4, 154
" -alum	3, 329	" Chromite	4, 154
" Aluminate	3, 323	" Chrysammate	12, 5
		" Cinnamate	13, 275
		" Citraconate	10, 421
		" Citrates	11, 451
		" Cobaltite	5, 345
		" Comenat	11, 386
		" Crenate	17, 468
		" Croconate	10, 392
		" Ethylosulphite	8, 410
		" Eugenate	14, 206
		" Euxanthate	17, 534
		" Fulminurate	10, 560
		" Formiate	7, 278
		" Fumarate	10, 27
		" Gallate	12, 407, 408
		" Gambodate	17, 418

Magnesia, Hippurate . . .	12, 78	Magnesia, Salicylimate . . .	12, 322
" Hydrate ..	3, 223	" Salicylate . . .	12, 252
" Hydrate, Electrolysis of	1, 458	" Salicylate ..	12, 242
" Hydrochlorate and Stannite . . .	5, 100	" Selemate . . .	3, 240
" Hydrofluante of Borate of	3, 213	" Selenites . . .	3, 240
" Hypobromite . . .	3, 241	" Selenocyanide ..	8, 123
" Hypochlorite . . .	3, 243	" Silicate, with Aluminate of Magnesia . . .	3, 462
" Hypoiodite ? . . .	3, 210	" Silicate, with Fluoride of Magnesium . . .	3, 401
" Hypophosphite . . .	3, 232	" Silicate, with Silicate of Alumina . . .	3, 420
" Hyposulphate . . .	3, 235	" Silicates . . .	3, 395
" Hyposulphite . . .	3, 235	" solution . . .	3, 224
" Iodate . . .	3, 240	" Stannate . . .	5, 100
" Itaconate . . .	10, 426	" Stearate . . .	17, 111
" Kinate . . .	16, 330	" Styphnate . . .	11, 233
" Lactate ..	11, 485	" Suberate . . .	13, 209
" Leucate . . .	15, 61	" Sucrate . . .	15, 288
" Linoleate ..	16, 308	" Sulphate . . .	3, 236
" Malate . . .	10, 219	" Sulphamdigotate . . .	13, 64
" Malates . . .	8, 157	" Sulphite . . .	3, 235
" Mandelate . . .	12, 59	" Sulphophlorctate . . .	13, 314
" Meconate . . .	12, 428	" Sulphosalicylate . . .	12, 279
" Mellitate . . .	10, 6	" Sulphovmate . . .	8, 424
" Metatartrate . . .	10, 329	" Sylvate . . .	17, 321
" Methylbitlmonate . . .	12, 489	" Tannate . . .	15, 466
" Molybdate . . .	4, 77	" Tartrate . . .	10, 290
" Muocate . . .	11, 507	" Tellurates . . .	4, 424
" Myristate ..	16, 213	" Tellurite . . .	4, 424
" Niccolate . . .	5, 386	" Thacetate . . .	13, 449
" <i>nigra</i> ...	4, 195	" Thionaphthamate . . .	14, 117
" Nitrate . . .	3, 244	" Tungstate . . .	4, 45
" Nitrate, Alcoholate of . . .	8, 268	" Uranate . . .	4, 192
" Nitrate, compound of urea with ...	7, 373	" Urate . . .	10, 476
" Nitrite . . .	3, 213	" <i>usta v calcinata</i> . . .	3, 222
" Nitrocinnamate . . .	13, 301	" Valerate . . .	11, 33
" Nitrohippurate . . .	12, 131	" Vanadates . . .	4, 102
" Oleate . . .	17, 72	" and Alumina, phosphate of . . .	3, 328
" Oxalate . . .	13, 518, 9, 132	" " sulphate of . . .	3, 329
" Oxamate . . .	13, 536	" and Ammonia, arseniate of . . .	4, 307
" Palmite . . .	16, 362	" and Ammonia, borate of ...	3, 245
" Perchlorate . . .	3, 243	" and Ammonia, carbonate of . . .	3, 244
" Permanganate . . .	4, 242	" and Ammonia, hypsulphite of . . .	3, 247
" Philoretate . . .	13, 311	" and Ammonia, metaphosphate of . . .	3, 247
" Phosphates . . .	3, 232	" and Ammonia, nitrate of . . .	3, 248
" Phosphite ...	3, 232	" and Ammonia, oxalate of . . .	9, 132
" Picrate ..	11, 222	" and Ammonia, phosphate of . . .	3, 245
" Piperate ..	15, 10	" and Ammonia, phosphite of . . .	3, 245
" Propionate . . .	10, 555	" " . . .	3, 245
" Purpurate . . .	10, 198	" " . . .	3, 245
" Pyromecconate . . .	10, 442	" " . . .	3, 245
" Pyrotartrate ..	11, 91	" " . . .	3, 245
" Racemate . . .	10, 354	" " . . .	3, 245
" Rhodizonate ..	10, 402	" " . . .	3, 245
" Ricinoleate ..	17, 134	" " . . .	3, 245
" Roccellate	16, 477	" " . . .	3, 245
" Saccharates . . .	11, 519	" " . . .	3, 245

Magnesia and Ammonia, sulphate		Magnesium, Chloride, with aurate	
of	3, 248	of magnesia	6, 235
and Ammonia, sulphate		Chloride, with cyanide of mercury	8, 23
of	3, 247	Chloro-aurate	6, 235
and Cupric oxide, sulphate of	5, 463	Chloropalladite	6, 355
Cupric oxide, and Ammonia, sulphate of	5, 463	Chloroplatinite	6, 330
and Ferroso-ferrie oxide, sulphate of	5, 274	Chlorostannate	5, 100
and Ferrous oxide, carbonate of	5, 271	Chromate of chloride of	4, 154
and Lime, arseniate of	4, 308	Cyanide .. 7, 417; 12, 495	
carbonate of	3, 253	Ferrieyanide	7, 485
compound of	3, 253	Ferrocyanide	7, 484
hydrated		Fluoride	3, 243
borate of	3, 254	Fluoride, with silicate of magnesia	3, 401
nitrate of	3, 254	Hydrated Protiodide	3, 240
silicates of	3, 401	Hyposulpharsenite	4, 307
and Nickel-oxide, phosphate	5, 386	Mellonide	9, 393
and Potash, borate of	3, 249	Naphthionate	14, 113
carbonate of	3, 249	Oxide	3, 222
chromate of	4, 154	Platinoeyanide	8, 53, 10, 509
compound of ?	3, 249	Platino-platimideyanide	8, 54
hyposulphite of	3, 249	Selenide ?	3, 239
succinate of	10, 122	Sulphantimonate	4, 390
sulphate of	3, 250	Sulpharsenite	4, 307
tartrate of	10, 291	Sulphide	3, 234
and Soda, borate of	3, 251	Sulphocyanide	8, 85
carbonate of	3, 251	with cyanide of mercury	8, 96
compound of ?	3, 251	Sulphomolybdate	4, 77
metaphosphate of	3, 252	Sulphotellurite	4, 425
pyrophosphate of	3, 252	Sulphotungstate	4, 45
sulphate of	3, 253	and Ammonium, chloride of	3, 248
tartrate of	10, 291	and Ammonium, ferrocyanide of	7, 485
and Uranic Oxide, acetate of	8, 308	and Ammonium, sulpharseniate of	4, 308
and Urea, tartrate of	13, 405	and Carbon, sulphide of	3, 239
and Zinc-oxide, sulphate of	5, 46	and Copper, sulphide of	5, 463
Magnesian-chromic Oxalate	9, 143	and Ethylamine, phosphate of	13, 480
uranic Acetate	13, 444	and Hydrogen, hydrated sulphide of	3, 235
Magnesite	3, 229	and Iodine, chloride of	3, 243
Magnesium	3, 221	and Iron, alloy of	5, 274
alloys	3, 254	and Mercury, bromide of	6, 109
Bromide	3, 240	and Mercury, chloride of	6, 109
Bromo-aurate	4, 234	and Mercury, iodide of	6, 108
Bromoplatinite	6, 329	and Potassium, ferrocyanide of	7, 486
Chloride	3, 241		
alcoholate of	8, 268		

Magnesium and Potassium, hy- drated bromide of	3, 250	Malate of Lime	10, 216
„ and Potassium, hy- drated chloride of	3, 250	„ Lime, preparation of	
„ and Silicon, fluoride of	3, 400	„ Succinic acid by fermentation of	10, 113
„ and Sodium, chloride of	3, 253	„ Lime and Ammonia	10, 219
„ and Titanium, fluo- ride of	3, 487	„ Lime and Potash	10, 219
Magnetic condition of all matter	1, 514	„ Lime and Soda	10, 219
„ curves	1, 168	„ Lithia	10, 214
„ and diamagnetic con- ditions of matter; are they distinct or merely relative? ...	1, 516	„ Magnesia	10, 219
„ effects of the electric current ...	1, 317	„ Manganese	10, 220
Iron-ore, manganiferous	5, 300	„ Mercuric	10, 226
Oxide of iron	5, 190	„ Mercurous	10, 225
„ Pyrites	5, 230	„ of Methyl	10, 227
Magnetisation (supposed) of steel by exposure to the violet rays of the solar spectrum ...	1, 167	„ Piperidine	10, 149
Magnetism, note on	1, 514	„ Potash	10, 214
„ relation of, to light	1, 167	„ Silver	10, 226
„ supposed influence of, on crystallisation ...	1, 514	„ Soda	10, 214
Magneto-electricity ...	1, 318	„ Strontia	10, 215
Magneto-electric machine	1, 318	„ Tin	10, 222
Magnium, syn. with Magnesium	3, 221	„ Uranium	10, 220
Magnus's determinations of the maximum tension of aqueous vapour	1, 263	„ Yttria	10, 220
experiments on the expansion of gases by heat	1, 224	„ Zinc	10, 221
green platinum salt	6, 304	„ Zinc and Ammonium	10, 222
Maillechort	5, 497	Malates, general properties of	10, 213
Maize fibrin	18, 441	Maleates of Ammonia	8, 151
„ -seed, fat of	16, 393	„ Baryta	8, 155
Malacca tin	5, 67	Maleate of Copper	8, 159
Malachite	5, 414	„ Ferric	8, 158
Malamate (Aspartate?) of Ethyl	10, 239	„ of Lead	8, 158
Malamide	10, 249	Maleates of Lime	8, 156
Malanil	11, 319	Maleates of Magnesia	8, 157
Malanilic acid	11, 320	Maleate, Mercurous	8, 159
Malanilide	11, 368	„ of Nickel	8, 158
Malate of Alumina	10, 220	Maleates of Potash	8, 154
„ Ammonia	10, 213	Maleate of Potash and Soda?	8, 155
„ Baryta	10, 215	„ Silver	8, 159
„ Cupric	10, 224	„ Soda	8, 154
„ Cupric, with Sulphate of Ammonia	10, 225	„ Strontia	8, 156
„ of Ethyl	10, 227	„ Zinc	8, 158
„ Ferric	10, 224	Maleic acid	8, 151
„ of Lead	10, 223	„ solubility of, in al- cohol	8, 273
„ Lead and Ammonium	10, 224	Malic acid, acids perhaps identi- cal with ...	10, 227
„ Lead and Zinc	10, 224	„ decompositions of	10, 211
		„ formation of, from Asparagin and As- partic acid	10, 207
		„ history, sources of	10, 205
		„ preparation of, from apples	10, 211
		„ preparation of, from cherries or ber- berries	10, 210
		„ preparation of, from houseleek	10, 210
		„ preparation of, from mountain-ash ber- ries	10, 208

Malic acid, preparation of, from the berries of <i>Rhus coriaria</i> . . .	10, 211	less than 2 at. oxygen to 1 at manganese . . .	4, 203
„ preparation of, from rhubarb-stalks . . .	10, 211	Manganese ores principally containing hydrated peroxide . . .	4, 208
„ properties of . . .	10, 211	„ Oxysulphide . . .	4, 219
Malleable iron . . .	5, 205	„ Peroxide . . .	4, 205
Malolil	14, 408	„ Peroxide, preparation of oxygen from . . .	2, 21
Malomethylic acid . . .	10, 227	„ Peroxide, with Cupric oxide . . .	5, 468
Malonates	13, 561	„ Peroxide, with Protioxide of Cobalt . . .	5, 347
Malonic acid	13, 560	„ Persulphomolybdate . . .	4, 247
Malovinic acid	10, 227	„ Phosphide . . .	4, 214
Malthacite	3, 419	„ Protiodide, with Hydriodate of Manganous oxide . . .	4, 226
Maltin	18, 455	„ Salts, Electrolysis of separation of, from Cobalt . . .	5, 321
Maltose	15, 338	„ Sesquioxide . . .	4, 204
„ formation of Dextroglucose from . . .	15, 309	„ Silicate of Protoxide of, with Silicate of Alumina . . .	3, 420
Malyl and Pfenyl, nitride of . . .	11, 319	„ soft	4, 205
Mandarin, oil of	14, 304	„ -spar	4, 213
Mandelates	12, 58	„ Sulpharsenate . . .	4, 315
Mandelic acid	12, 57	„ Sulphides	4, 218
Manganate of Baryta	4, 241	„ Tantalide	4, 246
„ Potash	4, 233	„ Terchloride ^p . . .	4, 229
„ Soda	4, 238	„ and Carbon of Sulphide	4, 225
„ Strontia	4, 242	„ and Copper, alloy of . . .	5, 468
Manganates, general properties of . . .	4, 209	„ and Gold, alloy of . . .	6, 237
Manganese	4, 194	„ and Iron, Carbide of . . .	5, 301
„ Alloys	4, 243	„ and Iron, Cyanides of	7, 488
„ -amalgam	6, 115	„ and Mercury, Bromide of	6, 116
„ Amylosulphate	11, 59	„ and Mercury, Chloride of	6, 116
„ Argentocyanide	8, 31	„ and Potassium, Ferricyanide of . . .	7, 488
„ Arsenide	4, 314	„ and Potassium, Fluoride of	4, 238
„ Aurocyanide	8, 42	„ and Potassium, Sulphide of	4, 237
„ black oxide	4, 204	„ and Sodium, Fluoride of	4, 240
„ blende	4, 218	„ and Sodium, Sulphide of	4, 239
„ Bromide	4, 227	Manganesian epidote	3, 430
„ Bromo-aurate	6, 237	Manganic acid	4, 208
„ Bromopalladite	6, 356	„ Cyanide	7, 421
„ Bromoplatinate	6, 332	„ Hydriodate	4, 226
„ Carbide	4, 213	„ Hydrochlorate	4, 229
„ Chlorides	4, 227	„ Oxalate	9, 146
„ Chloride, with Cyanide of Mercury . . .	8, 24		
„ Chloro-aurate	6, 237		
„ Chloropalladite	6, 356		
„ Chloroplatinate	6, 332		
„ Chromide	4, 247		
„ Cobaltidcyanide	7, 495		
„ compact and fibrous . . .	4, 203		
„ capreous	5, 468		
„ Cuprocyanide	8, 7		
„ Ferricyanide	7, 488		
„ Ferrocyanide	7, 488		
„ Fluorides	4, 230		
„ with fluxes	4, 239		
„ with glass-fluxes	4, 245		
„ grey oxide	4, 205		
„ ores containing more than 1½ at. and			

Manganic Oxide	....	4, 202	Manganous Ethylsulphite	..	8, 410
" Phosphate	..	4, 217	" Formate	....	7, 279
" Salts	.	4, 203	" Fumarate	...	10, 28
" Silicate	....	4, 244	" Gallate	..	12, 408
" Tartrate	....	10, 296	" Hypophosphate	..	4, 215
Manganico-ammonic Sulphate	..	4, 233	" Hyposulpharsenite	.	4, 315
" -ferric Phosphate		5, 303	" Hyposulphate		4, 220
" -potassic Sulphate	....	4, 238	" Hyposulphite		4, 220
Manganidecyanide of Cadmium	..	7, 426	" Hyposulphophosphate		4, 225
" Lead		7, 428	" Iodate		4, 227
" Potassium		7, 421	" Itaconate	.	10, 426
" Silver	..	8, 31	" Kinate	....	16, 330
" Zinc		7, 425	" Lactate	....	11, 486
Manganide of Iron	...	5, 300	" Malate	....	11, 220
Manganiferous Magnetic Iron-ore		5, 300	" Mellitate	.	10, 8
" Zinc-spar	..	5, 16	" Metaphosphate	...	4, 217
Manganocyanide of Potassium	..	7, 421	" Molybdate	..	4, 246
Manganoso-alummic Silicate	....	4, 245	" Nitrate	..	4, 231
" Sulphate	....	4, 242	" Nitrite	..	4, 231
" -ammonic Arseniate		4, 315	" Nitrobenzoate		12, 125
" Carbonate		4, 231	" Oxalate	..	9, 146
" Hydrochlorate		4, 233	" Oxide	..	4, 197
" Phosphate		4, 231	" Perchlorate	.	4, 230
" Sulphate		4, 232	" Phosphates	.	4, 215
" -ferrous Phosphate		5, 301	" Phosphite		4, 215
" -glucinic Silicate	..	4, 245	" Picrate	..	11, 214
" -manganic Cyanide	..	7, 421	" Piperate	...	15, 10
" Oxide		4, 200	" Pyrophosphate	....	4, 217
" Salts	..	4, 202	" Pyrotartrate	...	11, 90
" Sulphate		4, 224	" Racemate	..	10, 355
" -potassic Sulphate	..	4, 238	" Rhodizonate	..	10, 403
" -silicic Hydrofluorate	..	4, 244	" Salts	.	4, 199
" -sodic Sulphate	....	4, 239	" Selenite	..	4, 226
" -sodio-ammonic Pyrophosphate	..	4, 240	" Silicate	..	4, 242
" -uranic Acetate	.	13, 444	" Stannate	..	5, 102
Manganous Acetate	.	8, 308	" Styphnate	..	11, 233
" Aconitate		11, 406	" Suberate	..	13, 210
" Alloxanate	..	10, 165	" Succinate		10, 123
" Ammonic-sulphate		4, 232	" Sulphantimoniate		4, 391
" Antimoniate		4, 391	" Sulpharsenate	.	4, 315
" Arseniate	....	4, 314	" Sulpharsenite	..	4, 315
" Azelaate	..	17, 81	" Sulphate	..	4, 221
" Benzoate	..	12, 41	" Sulphide	..	4, 218
" Borate	..	4, 214	" Sulphite	..	4, 220
" Bromate	..	4, 227	" Sulphomolybdate	..	4, 247
" Bromide	....	4, 227	" Sulphotungstate	..	4, 246
" Camphorate	..	14, 461	" Sulphovinate	..	8, 425
" Carbonate	..	4, 213	" Tartrate	....	10, 296
" Chlorate	..	4, 230	" Tellurite and Tellurate	..	4, 426
" Chloride	....	4, 227	" Titanate	..	4, 246
" Chromate	..	4, 247	" Tungstate	..	4, 246
" Chrysammate	..	12, 5	" Valerate	....	11, 34
" Cinnamate	....	13, 276	" Vanadate	..	4, 247
" Citraconate	..	10, 421	" Vanadite	....	4, 247
" Citrate	....	11, 453	<i>Mangifera gabonensis</i> , fat from		
" Croconate	....	10, 393	the almonds of	....	16, 391
" Cyanide	....	7, 421	Mangold-wurzel juice, fermented gum from	....	15, 205

Mangold-wurzel juice, preparation of lactic acid from	11, 477	decomposition of cerin	18, 135
" leaves, emacausis of	7, 92	Margaric acid, natural, separability of, into palmitic and stearic acids	16, 351
" preparation of cane - sugar from	15, 242	" reactions of	16, 357
" red colouring matter of	16, 531	Margaric and Myristic acids, melting points of mixtures of	16, 473
Mangostin	17, 330	" and Oleic acids, melting points of mixtures of, according to Chevreul	17, 74
Manna, acrid resin of	17, 450	" and Palmitic acids, melting points of mixtures of	16, 474
" of Briançon, Melezitose in	15, 299	" and Stearic acids, melting points and mode of solidification of mixtures of	17, 114
" of Eucalyptus, Melitose in	15, 296	Margarin, composition of	7, 237
" <i>serilactis</i>	15, 217	Margarodite	3, 451
" from Sinai, cane-sugar in	15, 241	Margarone	17, 382; 17, 129
" of Syria, occurrence of Trehalose in	15, 299	Margarosulphuric acid	17, 88
Mannide	15, 368	Margraff	1, 4
Mannitan	15, 369	Marjoram-camphor	14, 379
Mannitandes, formation of	15, 362	" -oil	14, 379
Mannitartrates	15, 377	Marl	3, 391
Mannitates	10, 382	Marl-slate, bituminous, vanadium in	4, 81
Mannite, combinations of, with bases	15, 365	Marmolite	3, 395
" compound of, with formic acid	15, 374	Marrubium	18, 234
" decompositions of	15, 360—365	<i>Mars</i> , syn with Iron	5, 182
" fermentation of	7, 98	Marsdenne	18, 199
" formation of	15, 358	Marsh-air	7, 249
" " glucose		" -gas, decompositions of	7, 253
" from	15, 310	" formation of	7, 251
" hydrated	15, 365	" preparation of	7, 252
" in the olive	15, 540	" preparation of methylic alcohol from	12, 477
" preparation of, from manna	15, 358	" properties of	7, 253
" properties of	15, 359	" relative position of atoms in	7, 37
" reactions of, with acids	15, 362	" sources of	7, 248
" sources of	15, 356, 540	Marsh-mallow, mucilage of	15, 211
Mannitic Biolate	17, 100	" root, preparation of asparagene from	10, 241
Mannito-bisulphuric acid	15, 371	Marsh's test for arsenic	4, 263
Mannitose	15, 339	<i>Marrubium vulgare</i> , ferment-oil of	14, 406
Mannito-tersulphuric acid	15, 371	Martite	5, 194
Mannityl Bistearate	17, 127	Mascagnine	2, 462
" Sextearate	17, 127	Masopin	17, 422
<i>Maranta indica</i> and <i>M. arundinacea</i> , preparation of starch from the root-sprouts of	15, 77	Massicot	5, 108
Marble	3, 186	Massoy, oil of	14, 380
Margarate of Capryl	16, 382	Masterwort, oil of	14, 381
" Laine	16, 362	Mastic	17, 423
" Strontia	16, 362		
Margaric acid	16, 472		
" of Chevreul, preparation of	16, 355		
" formation of, by			

Masticin . . .	17, 425	Melampyrosulphate of baryta . .	15, 392
Maticin . . .	18, 231	Melanchym . . .	17, 439
Matico, oil of . .	14, 382	Melargallic acid, <i>see</i> Metagallic acid.	
<i>Matière colorante rouge</i> , <i>see</i> alizarin.		Melanic acid . . .	11, 163
" <i>visqueux</i> (Gobley's) . .	16, 481	Melaniline . . .	11, 351
Matter, magnetic condition of all . .	1, 514	Melanin . . .	18, 417
" theories respecting the nature of . .	1, 145, 158, 159	Melaniochine . . .	17, 272
Maximum densities of water and aqueous solutions . .	1, 225	Melanochrome . . .	5, 170
" tension of vapours, tables of . .	1, 261—261; 2, 503, 504	Melanoximide . . .	11, 366
Mayna resin . . .	16, 191	Melathine . . .	9, 11, 13
Meadow-sweet, neutral oil of . .	14, 362	Melene . . .	18, 150
Measures, tables for converting French into English . .	2, 497	" sulphide . . .	9, 394
" and Weights . .	1, 11—11	Meletin, <i>see</i> Quercetin.	
Meat, preservation of . .	7, 100, 116	Melezitose . . .	15, 298
Mecca Balsam . . .	17, 393	Mehlot, preparation of cumarin from . .	13, 322
" oil of . .	14, 353	Meliose . . .	5, 167
Mechanical combination . .	1, 20	<i>Melinum</i> . . .	5, 52
" division, effect of, in facilitating combustion . .	2, 26	Melissic acid . . .	18, 152
Mechloic acid . . .	14, 423	" alcohol . . .	18, 150
Meconamidic acid . . .	12, 431	Melissin . . .	18, 150
Meconate of Ammonia . .	12, 427	Melissyl-sulphuric acid . .	18, 152
" Ethylmeconic acid . .	12, 432	Melitose . . .	15, 296
" Morphine . . .	18, 436	Melitate of Alumina . .	10, 7
" Papaverine . . .	18, 203	" Ammonia . . .	10, 3
" Thebaine . . .	18, 209	" Ammonio-cupric . .	10, 11
" Urea . . .	13, 406	" of Aniline . . .	11, 263
Meconates, metallic . .	12, 427	" Baryta . . .	10, 6
Meconic acid . . .	12, 421	" Cinchonine . . .	17, 216
" crystallised . .	12, 426	" Cobalt . . .	10, 9
" reaction of, with ferric salts . .	12, 429	" Cupric . . .	10, 10
Meconidine . . .	18, 199	" Ferric . . .	10, 9
Meconum . . .	14, 423	" Ferrous . . .	10, 9
" -hypomtric acid . .	14, 113	" Furfurine . . .	10, 382
" -resin . . .	14, 425	" Lead . . .	10, 8
Medicago, resin of . .	17, 450	" Magnesia . . .	10, 6
Medicinal action of organic compounds . . .	7, 66	" Manganese . . .	10, 8
Medjudite . . .	4, 191	" Mercuric . . .	10, 11
Medullic acid . . .	17, 540	" Mercurous . . .	10, 11
<i>Medusæ</i> , phosphorescence of . .	1, 185	" of Morphine . . .	16, 435
Meerschbaum . . .	3, 400	" Nickel . . .	10, 9
" of Longbanshyttan . .	3, 398	" Palladium . . .	10, 13
Mejonite . . .	3, 430	" Palladium with Ammonia . . .	10, 13
Melain . . .	18, 418	" Palladium and Potassium . . .	10, 13
Melam . . .	9, 482; 10, 548	" Palladium and Sodium . . .	10, 13
Melamine . . .	9, 479; 10, 548	" Potash . . .	10, 5
Melampyrite . . .	15, 389, 543	" Quinine . . .	17, 289
" compounds of, with bases . . .	15, 390	" Silver . . .	10, 12
		" Silver and Potassium . . .	10, 12
		" Soda . . .	10, 6
		" Solanine . . .	18, 98
		" Strontia . . .	10, 6
		" Strychnine . . .	17, 502
		" Zinc . . .	10, 8

Mellitene	10, 1	Mercuric Bromates . . .	6, 45
Mellitic acid	10, 1	„ Bromate with Mer-	
Mellone	9, 378	curic Amide	6, 83
Melloni's experiments on ra-		„ Bromate, hydrated,	
diant heat	1, 214	with Nitride of Mer-	
Mellonides	9, 388; 10, 545	cury	6, 83
Melting point	1, 253	„ Bromide	6, 42
„ points, tables of	1, 290	„ Bromide with Alkarsin	9, 323
Menaccanite	5, 291	„ Cacodylate	9, 331
Menaphthalidine, <i>see</i> Menaphthyl-		„ Camphorate	14, 462
amine.		„ Carbonate	6, 15
Menaphthoximide	14, 128	„ Chlorate	6, 62
Menaphthylamine	14, 125	„ Chloride	6, 53
Mendipite	5, 147	„ Chloride with Alkarsin	9, 324
Menspermene	17, 52	„ Chloride with Aspara-	
<i>Mentha viridis</i> , volatile oil of	14, 383	gine	10, 248
Menthene	14, 445	„ Chloride, cacodylate of	9, 331
Menyanthin .. 15, 112, 346; 16, 30		„ Chloride with Cupric	
Mercaptan	8, 340	acetate	8, 332
„ Amylic	11, 38	„ Chloride with hydro-	
„ Butylic	10, 99	date of Cinchonine ..	17, 212
„ Methylc	7, 284	„ Chloride with Nicotine	14, 228
Mercaptans	7, 211	„ Chloride with Strych-	
Mercaptide of Copper	8, 345	nine	17, 497
„ Gold	8, 347	„ Chloride, reaction of,	
„ Lead	8, 345	with albumin	18, 299
„ Mercury	8, 345	„ Chloride with sulphate	
„ Platinum	8, 349	of Strychnine	17, 497
„ Potassium	8, 344	„ Chloride, use of for pre-	
„ Silver	8, 347	serving wood	7, 113
„ Sodium	8, 345	„ Chromate	6, 114
Mercerised Cotton	15, 141	„ Citrate	11, 460
Mercurallyl	13, 548	„ Crenate	17, 468
Mercurate of Ammonia	6, 77	„ Croconate	10, 395
„ Lime	6, 107	„ Cyanide	8, 11
Mercurialine	18, 201	„ Cyanide with Acetate	
<i>Mercurialis annua</i> , oil of	14, 383	of Soda	8, 333
Mercuric Acetate	8, 332	„ Cyanide with Am-	
„ Acetate with Mercuric		monia	8, 17
Cyanide	8, 332	„ Cyanide with Bro-	
„ Aconitate	11, 406	mide of Barium	8, 22
„ Alloxanate	10, 168	„ Cyanide with Bro-	
„ Amide, compounds of,		mide of Calcium	8, 23
with basic Mercuric		„ Cyanide with Bro-	
Nitrate	6, 44	mide of Potassium ..	8, 20
„ Amide with Mercuric		„ Cyanide with Bro-	
Bromate	6, 83	mide of Sodium	8, 21
„ Amide with Mercuric		„ Cyanide with Bro-	
Trisulphate	6, 79	mide of Strontium ..	8, 22
„ Amido-chloride	6, 85	„ Cyanide with Caf-	
„ Amido-chloride with		feine	13, 234
Sal-azamoniac	6, 87	„ Cyanide with Chlo-	
„ Amido-iodide	6, 81	ride of Ammonium ..	8, 17
„ Amid oxychloride	6, 88	„ Cyanide with Chlo-	
„ Amylosulphates	11, 60	ride of Barium	8, 22
„ Antimoniate	6, 120	„ Cyanide with Chlo-	
„ Arsenite	6, 116	ride of Calcium	8, 23
„ Aspartate	10, 278	„ Cyanide with Chlo-	
„ Benzoate	12, 44	ride of Cobalt	8, 26

Mercuric Cyanide with Chloride of Magnesium .	8, 23	Mercuric Fluoride ...	6, 66
" Cyanide with Chloride of Manganese .	8, 24	" Formate ...	7, 282
" Cyanide with Chloride of Nickel .	8, 26	" Fulminate ..	9, 300
" Cyanide with Chloride of Potassium	8, 20	" Fumarate ..	10, 31
" Cyanide with Chloride of Sodium ..	8, 21	" Gallate ...	12, 411
" Cyanide with Chloride of Strontium .	8, 22	" Hyposulphate ...	6, 27
" Cyanide with Chloride of Zinc .	8, 24	" Hyposulphosphite	6, 31
" Cyanide with Chromate of Potash .	8, 23	" Iodate ...	6, 41
" Cyanide with Ferrocyanide of Potassium	8, 25	" Iodide ...	6, 36
" Cyanide with Formate of Ammonia .	8, 26	" Iodide, compounds of, with Ethylic and Methyl Sulphides ...	13, 450
" Cyanide with Hydrodate and Hydrobromate of Cinchonine	17, 214	" Iodide with Mercuric Nitrate .	6, 76
" Cyanide with Hydrochlorate of Ethylamine .	9, 62	" Iodide with Nicotine	14, 223
" Cyanide with Hydrochlorate of Strychnine	17, 500	" Iodosulphate .	6, 41
" Cyanide with Hyposulphide of Potash .	8, 19	" Iodosulphide....	6, 41
" Cyanide with Iodide of Barium	8, 22	" Kinase ...	16, 233
" Cyanide with Iodide of Calcium	8, 23	" Lactate ..	11, 494
" Cyanide with Iodide of Potassium	8, 19	" Leucate ...	15, 63
" Cyanide with Iodide of Sodium ..	8, 21	" Malate .	10, 226
" Cyanide with Iodide of Strontium ..	8, 22	" Mandelate .	12, 59
" Cyanide with Mercuric Acetate .	8, 332	" Melitate ..	10, 11
" Cyanide with Nicotine	14, 229	" Methyl .	13, 399
" Cyanide with Nitrate of Silver ...	8, 33	" Mucate .	11, 509
" Cyanide with Strychnine .	17, 500	" Nitrate ..	6, 74
" Cyanide with Mercuric Nitrate ..	8, 17	" Nitrate, basic compounds of, with Mercuric Amide .	6, 94
" Cyanide with Sulphocyanide of Barium ..	8, 96	" Nitrate with Mercuric Cyanide ..	8, 17
" Cyanide with Sulphocyanide of Calcium	8, 96	" Nitrate with Mercuric Iodide	6, 76
" Cyanide with Sulphocyanide of Magnesium	8, 96	" Nitrate with Mercuric Phosphide ..	6, 76
" Cyanide with Sulphocyanide of Potassium	8, 96	" Nitrate with Mercuric Sulphide ..	6, 76
" Ethyl	13, 512	" Nitrate with Silver Iodide ...	6, 199
		" Nitrate with Silver Nitrate .	6, 199
		" Nitrate with Urea	7, 374
		" Nitro-iodide ..	6, 81
		" Oleate ..	17, 73
		" Osmiamate	6, 422
		" Oxalate	9, 168; 13, 527
		" Oxide... ..	6, 8
		" Oxide with Asparagine	10, 248
		" Oxide, action of, on Bromide and Iodide of Ethyl ...	13, 417
		" Oxide, Hydrated	6, 11
		" Oxybromide .	6, 43
		" Oxychloride .	6, 59
		" Oxychloride, Sulphate of ...	6, 64
		" Oxyiodide	6, 40
		" Oxysulphocyanide	8, 95
		" Perchlorate	6, 62

Mercuric Periodates ..	6, 41	Mercurio-potassic Sulphate	6, 99
" Persulphomolybdate ..	6, 112	" -sodic Hyposulphite	6, 103
" Phosphate ..	6, 18	" -strontic Hyposulphite	6, 107
" Phosphobromide ..	6, 45	Mercurus	6, 1
" Picrate ..	11, 227	" <i>canereus Blacku, see</i>	
" Piperate ..	15, 10	" <i>Edinburgensium</i> ..	6, 94
" Platinocyanide ..	10, 510	" <i>dulcis, s kaïomela-</i>	
" Pyrotartrates ..	11, 98	" <i>micus, see loticus</i> ..	6, 45
" Salts ..	6, 12	" <i>precipitatus albus</i> 6, 85,	87
" Selenite ..	6, 33	" <i>precipitatus per se</i>	6, 8
" Silicofluoride ..	6, 110	" <i>precipitatus ruber</i> ..	6, 9
" Stannate	6, 125	" <i>solubilis Hahnemannii</i>	6, 91
" Stearate ..	17, 112	" <i>sublimatus corrosivus</i>	6, 53
" Suberate ..	13, 211	Mercuroso-ammonic Acetate	8, 332
" Succinate ..	10, 128	" " Bromate?	6, 83
" Sulphantimoniate ..	6, 121	" " Nitrate ..	6, 91
" Sulpharsenate ..	6, 119	" -mercuric Iodide	6, 35
" Sulphar-emite ..	6, 113	" " Nitrate ..	6, 73
" Sulphate ..	6, 28	" " Sulphate	6, 30
" Sulphate with Phos-		" -potassic Hyposul-	
" phite of Mercury	6, 32	" phite	6, 98
" Sulphate with Sulphide		Mercurotetretylum Iodide ..	13, 482
" of Mercury ..	6, 32	Mercurous Acetate ..	8, 330
" Sulphide, amorphous ..	6, 25	" Aconitate ..	11, 406
" Sulphide, crystalline ..	6, 19	" Amide with Trisul-	
" Sulphide with Mercu-		" phate of Mercurous	
" ric Nitrate ..	6, 76	" Oxide? ..	6, 78
" Sulphide with Mercu-		" Amido-chloride ..	6, 84
" ric Sulphate ..	6, 92	" Antimoniate	6, 120
" Sulphobromide ..	6, 45	" Arsenate ..	6, 117
" Sulphocarbonate ..	6, 31	" Arsenite ..	6, 116
" Sulphochloride ..	6, 63	" Benzoate ..	12, 43
" Sulphocyanide ..	8, 94	" Bromide	6, 42
" Sulphofluoride ..	6, 66	" Bromate ..	6, 44
" Sulphomolybdate ..	6, 112	" Butyrate ..	10, 88
" Sulphophosphate ..	6, 31	" Camphorate ..	14, 462
" Sulphophosphite	6, 31	" Carbonate ..	6, 15
" Sulphotellurite	6, 122	" Chlorate ..	6, 61
" Sulphotungstate ..	6, 111	" Chloro-hyposulphite	6, 65
" Sulphovinate	8, 428	" Chloride ..	6, 45
" Tannate	15, 470	" Chloride, Sulphate of	6, 64
" Tartrate ..	10, 323	" Chromate	6, 113
" Tellurate	6, 122	" Chrysammate ..	12, 6
" Tellurite ..	6, 121	" Cinnamate ..	13, 277
" Thiacetate ..	13, 449	" Citrate ..	11, 459
" Trisulphate with Mer-		" Cobaltidecyanide? ..	8, 26
" curic Amide ..	6, 79	" Crenate	17, 468
" Tungstate	6, 111	" Croconate	10, 395
" Urate ..	10, 477	" and Cuprous oxide,	
" Vanadite ..	6, 112	" hyposulphite of ..	6, 131
Mercurio-ammonic Acetate	8, 232	" Cyanate ..	8, 68
" " Fluoride	6, 91	" Fluoride ..	6, 65
" " Hyposul-		" Formiate ..	7, 281
" " phite	6, 78	" Fumarate ..	10, 30
" " Sulphate ..	6, 80	" Gallate	12, 411
" " Tungstate	6, 111	" Hippurate ..	12, 80
" -argentic Nitrate	6, 199	" Hyposulphate ..	6, 27
" -barytic Hyposulphite	6, 106	" Iodide ..	6, 34
" -calcic Hyposulphite	6, 107	" Itaconate ..	10, 427

Mercurous Lactate	... 11, 494	Mercury	.... 6, 1
" Leucate	... 15, 62	" and Air, comparison	.... 6, 1
" Malate	... 10, 225	" of the expansion of,	.... 1, 225
" Maleate	... 8, 159	" by heat	.... 1, 225
" Mannitate	... 15, 384	" alleged solubility of, in	.... 5, 4
" Mellitate	... 10, 11	" boiling water	.... 5, 4
" Methyl, nitrate of	... 13, 399	" Amido-bromide	... 6, 83
" Molybdate	... 6, 112	" Ammonio-dichloride	... 6, 83
" Mucate	... 11, 509	" " -diniodide	... 6, 80
" Nitrates	... 6, 69—72	" " -ferrocyanide	... 8, 24
" Nitrate with phos-	.... 6, 75	" " -gallates	.... 12, 411
" phide of mercury	.... 6, 75	" " -protobro-	.... 6, 82
" Nitrite	... 6, 69	" " -nide	.... 6, 82
" " decomposition	.... 7, 367	" " -protochloro-	.... 6, 84
" of urea by	... 6, 119	" " -ride	.... 6, 80
" Nitro-arsemate	... 12, 310	" " -protiodide	.... 6, 77
" Nitrosalicylate	... 17, 73	" " -protioxide	.... 8, 33
" Oleate	... 6, 422	" Argentocyanide	.... 6, 40
" Osmiamate	... 9, 167; 13, 527	" Biniodide	.... 6, 5
" Oxalate	... 6, 5	" black oxide	.... 6, 42
" Oxide	... 10, 483	" Bromides	... 6, 45, 53
" Oxide and Guanine,	... 10, 171	" Chlorides	... 6, 118
" nitrate of	... 6, 62	" Chlorarsenide	... Cyanide, see Mercuric
" Oxurate	... 6, 41	" Cyanide	.... 6, 42
" Perchlorate	... 6, 112	" Dibromide	... 6, 45
" Periodate	... 6, 17	" Dichloride	... 6, 65
" Persulphomolybdate	... 6, 75	" Difluoride	... 6, 34
" Phosphate	... 11, 227	" Diniodide	... 6, 5
" Phosphonitrate	... 15, 10	" Dioxide	... 6, 19
" Picrate	... 10, 385	" Disulphide	.... Ethyl-compounds con-
" Piperate	... 6, 17	" Pyromucate	.... taining
" Pyrophosphate	... 10, 360	" Racemate	.... extinction or deadening
" Salts	... 6, 7	" Salts	.... of ...
" Selenite	... 6, 33	" Selenite	... 6, 3
" Silicate	... 6, 110	" Silicate	... 6, 65
" Silicofluoride	... 6, 125	" Silicofluoride	... freezing of, in a red-
" Stannate	... 17, 112	" Stannate	.... hot platinum cruci-
" Stearate	... 13, 211	" Stearate	.... ble, by the rapid vapo-
" Suberate	... 10, 128	" Suberate	.... rization of ether and
" Succinate	... 6, 121	" Succinate	.... solid carbonic acid,...
" Sulphantimoniate	... 6, 118	" Sulphantimoniate	... 1, 278
" Sulpharsenite	... 6, 118	" Sulpharsenite	... 10, 540
" Sulphate	... 6, 28	" Sulphate	... 10, 561
" Sulphide	... 6, 19	" Sulphide	... Hydrothiosulpho - cy-
" Sulphocyanide	... 6, 112	" Sulphocyanide	.... anide
" Sulphomolybdate	... 6, 122	" Sulphomolybdate	.... 8, 101
" Sulphotellurate	... 6, 111	" Sulphotellurate	... Iodides
" Sulphotungstate	... 15, 470	" Sulphotungstate	... 6, 34
" Tannate	... 10, 322	" Tannate	... 9, 394
" Tartrate	... 6, 121	" Tartrate	... 8, 345
" Tellurate	... 6, 121	" Tellurate	... movements of, in the
" Tellurite	... 6, 121	" Tellurite	.... circuit of the voltaic
" Trisulphate with	... 6, 78	" Trisulphate with	.... battery
" Mercurous Amide?	... 6, 111	" Mercurous Amide?	... 1, 486
" Tungstate	... 6, 112	" Tungstate	... movements of, in the
" Vanadate	... 6, 83	" Vanadate	.... simple galvanic cir-
			.... cut
			... 1, 331
			" Muriate
			... 6, 53
			" Nitride
			... 6, 66
			" " with hydrated
			bromate of mercuric
			oxide
			... 6, 83

Mercury, Nitrochloride	...	6, 89	Mercury, Sub-nitrate	..	6, 69
" Osmate	..	6, 422	" Sub-oxide	..	6, 5
" Oxides	..	6, 58	" Sulphides	..	6, 19, 25
" Oxyamide	....	6, 78	" Sulphobromide	...	6, 45
" Oxybromide	..	6, 43	" Sulphochloride	..	6, 63
" Oxychloride	..	6, 59	" Sulphoselenide	..	6, 33
" Oxycyanide	..	6, 16	" Thiocyanide	...	6, 115
" Oxyiodide	..	6, 36	" -vapours, tension of, at different temperatures	..	1, 262
" Oxyalts, <i>see</i> Mercuric and Mercurous salts.			" volatility of, at low temperatures	....	6, 4
" Phosphide	..	6, 17	" Xanthates	...	6, 461
" Phosphide with mercuric nitrate	..	6, 76	" and Ammonium, amalgam of	..	6, 67
" Phosphide with mercuric sulphate	..	6, 32	" and Ammonium, Bromide of	..	6, 83
" Phosphide with mercurous nitrate	....	6, 75	" and Ammonium, Iodide of	...	6, 82
" Phosphochloride	..	6, 62	" and Ammonium, Protochloride of	..	6, 89
" Platinoeyanide	..	6, 57	" and Antimony, amalgam of	..	6, 120
" Protiodide	..	6, 36	" and Arsenic, amalgam of	...	6, 116
" Protobromide	..	6, 42	" and Barium, amalgam of	..	6, 105
" Protochloride	....	6, 53	" and Barium, Bromide of	..	6, 106
" Protochloride with bichromate of ammonia	..	6, 115	" and Barium, Chloride of	..	6, 106
" Protochloride with bichromate of potash	..	6, 115	" and Barium, Iodide of	..	6, 106
" Protochloride with monochromate of potash	...	6, 115	" and Barium, Sulphide of	..	6, 105
" Protochloride with selenocyanide of mercury	...	6, 124	" and Cadmium, amalgam of	..	6, 124
" Protochloride with sulphethyl	..	6, 339	" and Cadmium, Iodide of	....	6, 124
" Protochloride with urea	...	7, 373	" and Calcium, amalgam of	..	6, 107
" Protofluoride	..	6, 66	" and Calcium, Chloride of	..	6, 108
" Protosulphide	...	6, 19	" and Calcium, Iodide of	..	6, 107
" Protoxide	...	6, 8	" and Cerium, Chloride of	..	6, 109
" purification of, from foreign metals	..	5, 2	" and Cobalt, amalgam of	...	6, 129
" reactions of	..	6, 6, 12	" and Cobalt, Chloride of	...	7, 129
" red oxide of	..	6, 8	" and Copper, amalgam of	..	6, 131
" preparation of oxygen from salts, action of hypsulphurous, pentathionic, tetrathionic, and triathionic acids on	...	6, 27	" and Copper, Chloride of	...	6, 131
" salts, solubility of, in alcohol	...	6, 272	" Copper, and Potassium, Chloride of	...	6, 131
" Selenide	...	6, 32	" and Glucinum, Chloride of	...	6, 109
" Selenocyanide with protochloride of mercury	...	6, 124			
" Sub-chloride	....	6, 45			
" Sub-muriate	...	6, 45			

Mercury and Gold, amalgam of	6, 247	Mercury and Strontium, amal-	
„ and Hydrogen, Bromide of	6, 44	gam of	6, 106
„ and Hydrogen, Chloride of	6, 61	„ and Strontium, Bromide of	6, 107
„ and Hydrogen, Iodide of	6, 40	„ and Strontium, Chloride of	6, 107
„ and Iron, amalgam of	6, 128	„ and Strontium, Iodide of	6, 107
„ and Iron, Bromide of	6, 129	„ and Tellurium, amalgam of	6, 121
„ and Iron, Chloride of	6, 129	„ and Tetrethylum, Iodides of	13, 488
„ and Iron, Iodide of	6, 129	„ and Tin, amalgam of	6, 124
„ and Lead, amalgam of	6, 126	„ and Tin, Chloride of	6, 125
„ and Lead, Cyanide of ?	8, 24	„ and Yttrium, Chloride of	6, 109
„ and Lead, Selenide of	6, 127	„ and Zinc, amalgam of	6, 122
„ and Lithium, Chloride of	6, 105	„ and Zinc, Chloride of	6, 123
„ and Magnesium, amalgam of	6, 103	„ and Zinc, Cyanide of ?	8, 24
„ and Magnesium, Bromide of	6, 109	„ and Zinc, Iodide of	6, 123
„ and Magnesium Chloride	6, 109	„ and Zinc, Selenide of	6, 123
„ and Magnesium, Iodide of	6, 103	„ and Zirconium, amalgam of	6, 110
„ and Manganese, amalgam of	6, 115	Mesaconate of Ammonia	10, 428
„ and Manganese, Bromide of	6, 116	„ Baryta	10, 429
„ and Manganese, Chloride of	6, 116	„ Cupric	10, 432
„ and Methyl Cyanide	13, 412	„ of Lead	10, 430
„ and Nickel, amalgam of	6, 130	„ Lime	10, 430
„ and Nickel, Chloride of	6, 130	„ Potash	10, 429
„ and Osmium, amalgam of	6, 422	„ Silver	10, 432
„ and Osmium, Protochloride of	6, 422	„ Soda	10, 429
„ and Potassium, amalgam of	6, 97	Mesaconic acid	10, 427
„ and Potassium, Bromide of	6, 101	„ Ether	10, 433
„ and Potassium, Cyanide of	8, 18	Mesite	7, 258
„ and Potassium, Iodide of	6, 99	„ Reichenbach's	9, 53
„ and Potassium, Sulphide of (hydrated)	6, 98	„ Weidmann and Schweizer's	9, 51
„ and Potassium sulphocyanide	8, 95	Mesitene	9, 52
„ and Silver, amalgams of	6, 198	Mesitic Alcohol	9, 6
„ and Silver, Nitrate of	6, 199	„ Aldehyde	9, 27
„ and Sodium, amalgam of	6, 103	„ Chloral	9, 25
„ and Sodium, Bromide of	6, 104	„ Ether	9, 21
„ and Sodium, Chloride of	5, 104	Mesityl Chloride	9, 27
		„ Iodide	9, 26
		„ Oxide	9, 25; 13, 471
		Mesitylene	9, 17; 13, 340
		„ Bihydrate	13, 343
		„ Hydriodate	9, 26
		„ Hydrochlorate	9, 27
		Mesityl-hyphosphorous acid	9, 28
		Mesityl	9, 17; 13, 340
		Mesityl-phosphoric acid	9, 29
		„ -sulphuric acid	9, 29; 12, 518; 13, 314
		Mesole	3, 436
		Mesolite	3, 438
		„ electric properties of	1, 320
		Mesotype, calcareous	3, 438

Mesoxalates	9, 425	specific gravities and	
Mesoxalic acid	9, 425	atomic weights of ...	1, 55
Meta-antimoniate of Ammonia	4, 372	Metals, replacement of Hydro-	
Metacaprol ?	14, 493	gen by	7, 73
Metacacrylene	13, 182	" specific heat of ...	1, 242
Metacetamide	9, 432	Metamargaric acid	17, 88
Metacetamine	9, 411	Metamerism	1, 110
Metacetic acid	9, 402	" in organic com-	
" Ether	9, 409	pounds	7, 69
" or Metacetic alcohol	9, 398	Metamorphine	18, 441
Metacetone	9, 409	Metanaphthalin	14, 10
Metacrolein	13, 551	Metanethol	14, 199
Metagallic acid, formation of,		" -camphor	14, 199
from tannic acid by heat	15, 458	Metapectates	15, 411
Metagummic acid	15, 205	Metapectin	15, 400
" acid, formation of		Metaphosphates	2, 132
Arabic acid (gum		Metaphosphate of Alumina	3, 311
arabic) from . . .	15, 197	" Ammonia	2, 442
Metalbumin	18, 281, 332	" Aniline	11, 257
Metaldehyde	8, 281	" Baryta	3, 145
Metalapsy in organic compounds	7, 71	" Bismuth-oxide	4, 434
Metaligno-humic acid ..	17, 474	" Cadmic oxide	5, 57
Metallic Bromides	2, 285	" Chromic oxide	4, 123
" Chlorides	2, 351	" Cobalt-oxide....	5, 331
" Chlorides, compounds		" Cobalt-oxide	
of, with Hydrocyanic		and Soda	5, 344
acid	8, 148	" Cupric oxide	5, 420
" Chlorides, compounds		" Ferric oxide. . . .	5, 227
of Urea with ...	7, 372	" Furfurine ? . . .	10, 379
" Cyanides	7, 405	" Lead-oxide	5, 131
" Fluorides	2, 365	" Lime	3, 196
" Iodides	2, 268	" Magnesia	3, 234
" models for electroty-		" Magnesia and	
ping	1, 507	Ammonia . . .	3, 247
" Nitrides	2, 494	" Manganous	
" Oxides	2, 39	oxide	4, 217
" Phosphides	2, 151	" Naphthyla-	
" pyrometer (Daniell's)	1, 226	mine	14, 98
" Salts, solubility of, in		" Nickel-oxide	5, 369
alcohol	8, 265	" Nickel-oxide	
" Selenides	2, 454	and Soda ...	5, 386
" Sulphides	2, 221	" Potash	3, 30
" thermometer (Breg-		" Silver-oxide	6, 149
uet's)	1, 226	" Silver-oxide	
Metalloids, classification of	2, 18	and Soda ..	6, 179
" enumeration of ..	2, 1	" of Soda	3, 95
Metals, development of elec-		" Soda and Ba-	
tricity by combination		ryta	3, 165
of, with one another	1, 322	" Strontia	3, 172
" electric conducting pow-		" Zinc-oxide	5, 18
ers of	1, 310	" Zinc-oxide and	
" enumeration of ..	2, 1	Ammonia	5, 37
" finely divided, atomic		Metaphosphoric acid ...	2, 125
volumes of	1, 84	" acid, modifica-	
" galvanic precipitation		tions of	2, 133
of	1, 497	Metastyrol	13, 6
" their general properties		Metatartaric acid . . .	10, 327
and classification	3, 1	Metatartrate of Ammonia	10, 328
" relations between the		" Baryta.... ..	10, 329

- Metatartrate of Lead 10, 329
- " Lime .. 10, 329
- " Magnesia .. 10, 329
- " Potash .. 10, 328
- " Soda .. 10, 328
- " Soda and Potash 10, 328
- Metaterebenthene 14, 272
- Metavaleraldehyde ? 11, 20
- Meteoric Iron 5, 395
- " Iron, cobalt in .. 5, 315
- " Iron, nickel in 5, 355
- Meteorites, carbonaceous substance from .. 18, 172
- " occurrence of magnetic oxide of iron in 5, 190
- Metethylaniline 11, 332
- Metethamylamine 11, 108
- Metethaniline 11, 306
- Methal 16, 209
- Methamaniline 11, 331
- Methamyllic Ether 11, 8
- " Oxysulphocarbonates .. 11, 62
- Methaniline 11, 300
- Methionates 8, 435
- Methobriethylamylammonium .. 11, 110
- Methol 9, 47; 13, 341
- Methstannamyl 11, 132
- Methstannamyl 11, 133
- Methylnitrosalicylate of Ammonia 12, 318
- Methyl 7, 247
- " Acetate 8, 484
- " action of chlorine on sulphides of ... 10, 500
- " action of heat on chloride of .. 12, 480
- " Alcohol and Ethers, expansion of, by heat 1, 226, 227, 228, 232
- " Alcohol, mixtures of, with ethyl-alcohol .. 8, 272
- " Alcohol, percentage of in aqueous wood-spirit 7, 267
- " Amidobenzoate .. 12, 146
- " Anisate 13, 129
- " Arachidate .. 17, 373
- " -bases containing Arsenic and Phosphorus 13, 492
- " -bases containing Phosphorus .. 7, 328
- " Benzoate .. 12, 56
- " Benzamate .. 12, 147
- " Baborate .. 7, 295
- " Bisulphide .. 7, 283
- " Borate, terbasic .. 7, 294
- " Bromacetate .. 12, 534
- " Bromanilate .. 13, 133
- " Bromide ... 7, 286
- Methyl, Butyrate 10, 90
- " Caproate ... 11, 418
- " Caprylate ? .. 13, 199
- " Carbolate .. 12, 261
- " -cinnchonidine .. 17, 233
- " Cinnamate .. 13, 281
- " Citrates .. 11, 462
- " Chloranilate .. 13, 136
- " Chloride .. 7, 287; 13, 392
- " Chloride, chlorinated 7, 258
- " Chloride, decomposition at a red heat 10, 495
- " Chloride, liquefaction of 10, 195
- " Cholate .. 13, 56
- " compounds, solubility of in alcohol .. 7, 272
- " Cyanate .. 8, 488
- " Cyanide .. 8, 60; 9, 294
- " Cyanide, compounds of, with metallic Chlorides 13, 412
- " Cyanurate .. 9, 458
- " Elaidate .. 17, 83
- " Erythrate .. 12, 372
- " -ether, bichlorinated .. 7, 350
- " -ether, formic .. 7, 309
- " -ether, hydriodic .. 7, 285
- " -ether, hydrobromic .. 7, 286
- " -ether, hydrochloric .. 7, 287
- " -ether, monochlorinated 7, 289
- " -ether, terchlorinated .. 7, 354
- " Fluoride .. 7, 290
- " Hydrated oxide ... 7, 258
- " Iodide .. 7, 285
- " Iodide with Methylpiperidine ... 10, 451
- " Iodide, preparation of 13, 451
- " Lecanorate .. 12, 372
- " Malate .. 10, 227
- " Mercurous, nitrate of 13, 399
- " and Mercury, cyanide of 13, 412
- " Mucate .. 11, 509
- " Nitransate .. 13, 139
- " Nitrate, action of alkaline hydrates on ... 13, 388
- " Nitrite ... 9, 505
- " Nitrobenzoate .. 12, 127
- " Nitrotoluylate 13, 24
- " Oleate .. 17, 82
- " Orsellate .. 12, 372
- " Oxalate .. 9, 174
- " Oxide .. 7, 256; 10, 489
- " Oxide, compound of, with Zinc-methyl .. 13, 397
- " Oxide, sulphocarbonate of 7, 292
- " Palmitate ... 16, 373
- " -palmitic ether 16, 373
- " Phenate ... 12, 261
- " Protosulphide 6, 283
- " Pyrotartrate ... 11, 100

Methyl, Salicylate, neutral ..	12, 258	Methylene, Bichloride ..	7, 288
„ Sebate	14, 499	„ Bihydrate ..	7, 258
„ Suberate	13, 212	„ Bromide ..	13, 391
„ Succinate	10, 132	„ Chloride	13, 391
„ Sulphides, action of chlorine on	10, 500	„ Hydrate	7, 256
„ Sulphide, compound of, with Mercuric Iodide	13, 450	„ Hydrobromate	7, 286
„ Sulphide, sulphhydrate of	7, 284	„ Hydrochlorate . .	7, 287
„ Sulphocarbonate . .	7, 293	„ Hydrofluorate . .	7, 290
„ Sulphocyanide . . .	8, 121	„ Hydrosulphate . .	7, 285
„ Sulphocyanide, action of chlorine on	10, 511	„ Indigotate	12, 311
„ Stearate	17, 114	„ Iodide	13, 390
„ Tartrate	10, 343	„ Mercaptan	7, 284
„ Terbasic borate . .	7, 294	„ Stannamyl ..	11, 132
„ Terebulate	12, 469	„ Stannethyl	9, 99
„ Tersulphide	7, 330	Methyl-ethylamine ..	11, 307
„ Ureo-carbonate . .	7, 377	„ -ethylate of ethylene	12, 520
„ Valerate	11, 67	„ -ethylurea	9, 291
Methyl-acetone	13, 473	„ -hexyl	11, 413
Methylal	7, 310	„ -hyposulphuric acid	2, 341
Methylamine	7, 313	Methylc Alcohol	7, 258
„ -alum	13, 481	„ „ copulated acids produced by, with carbonic and sulphurous acids	7, 224
„ compound of, with protochloride of platinum	7, 318	„ „ preparation ...	10, 490
„ Oxalates	9, 172	„ „ relative position of atoms in	7, 37
„ Salts	7, 316	„ „ synthesis of	12, 477
Methylamylamine	11, 331	„ Bisulphide, chloride of	10, 502
Methylaniline	11, 300	„ Chloride, sulphite of bichlorinated	7, 350
Methylate of Amyl . .	11, 8	„ Ether	7, 218, 256
„ Benzylene	12, 221	„ „ relative position of atoms in	7, 37
„ Ethyl	8, 192	„ Formiate	7, 309
„ Ethylene	12, 520	„ Nitrate	7, 308
„ Octyl	13, 198	„ Sulphate	7, 304
Methyl-benzolic ether ...	12, 201	„ Sulphide, bichlorinated	10, 501
„ -biethamylamine . .	11, 110	„ „ monochlorinated	10, 500
„ -bithionic acid	12, 488	„ „ terchlorinated	7, 355
„ -bibromosalicylic acid ...	12, 289	Methyl-irisine ..	13, 253
„ -bichlorosalicylic acid .	12, 299	„ -lepidine	14, 118
„ -binitrosalicylate of silver	12, 318	„ -lutidine	12, 339
„ -binitrosalicylic acid ...	12, 317	„ -morphine	16, 439
„ -bromosalicylic acid ...	12, 286	„ -nicotine	14, 235
„ -brucine	17, 586	„ -nitrosalicylic acid	12, 311
„ -camphoric acid	14, 463	„ -oenanthal	13, 189
„ -caproyl ...	18, 564; 11, 413	„ -oentanthylic ether	13, 198
„ -caprylic ether	13, 198	„ -oxamic acid	9, 261
„ -cinchonine	17, 232	„ -oxamide	9, 265
„ -ethyl-amylamine . .	11, 108	„ -phosphate of soda	9, 29
„ „ -amylaniline	11, 332	„ -phosphoric acid	12, 482
„ -chinoline	13, 252	„ -phosphorous acid	12, 481
„ -chloroacetol	13, 468	„ -piperidine	10, 449
„ -chlorosalicylic acid	12, 297	„ „ with iodide of methyl	10, 451
„ -conine	13, 170	„ „ urea ...	15, 16
Methylene	7, 246		
„ Acetate	8, 484; 13, 392		
„ Anilate	12, 311		
„ Benzoate	12, 56		

Methyl-plumbethyl . . .	9, 106	Milk, preparation of lactic acid	
" " bromide . .	9, 108	from	11, 477
" " oxide . . .	9, 107	" supposed occurrence of al-	
" -quinine . . .	17, 306	bumin in . . .	18, 275, 307
" -salicyl, benzoate . .	12, 258	" of sulphur . . .	2, 159
" " cuminatc . . .	14, 159	Milk-sugar . . .	15, 217
" " hydrated . . .	12, 255	" aqueous . . .	15, 225
" " succinate . . .	12, 255	" combinations of,	
" -salicylate of Potash .	12, 257	with acids and	
" " Baryta . . .	12, 257	bases . . .	15, 226
" " Soda . . .	12, 257	" crystallized . . .	15, 224
" -salicylic acid . . .	12, 255	" decomposition of,	
" -selenous acid . . .	10, 491	by acetic acid . .	15, 221
" -stannethyl . . .	9, 402; 13, 507	" decomposition of,	
" -strychnine . . .	17, 506	by ammonia . .	15, 222
" " hydrate . . .	17, 507	" decomposition of,	
" " salts . . .	17, 508	by arsenic and	
" -ternitrosalicylic acid .	12, 319	arsenous acid . .	15, 221
" -tetrasulphuric acid . .	10, 497	" decomposition of,	
" -thialdine . . .	12, 554	by bromine . .	15, 219
" -triethylammonium . .	9, 69	" decomposition of,	
" -triethylum . . .	9, 69	by butyric acid .	15, 221
" -triethylphosphonium .	12, 528	" decomposition of,	
" -uramine . . .	9, 357	by chlorate of	
" -urea . . .	7, 375	potash and sul-	
Methysticine . . .	18, 196	phuric acid . .	15, 221
Metenanthol . . .	12, 450	" decomposition of,	
Metoleic acid . . .	17, 58	by chlorine . .	15, 219
Metoludine . . .	12, 342	" decomposition of,	
Mezereon bark, preparation of		by chromic acid .	15, 219
daphnetin from . . .	17, 175	" decomposition of,	
" preparation of		by cupric salts . .	15, 222
daphnin from . . .	17, 177	" decomposition of,	
Miargyrite . . .	6, 191	by dry distilla-	
Miasmata, disengagement of .	2, 415	tion . . .	15, 219
Mica, artificial . . .	3, 424	" decomposition of,	
" biaxial, or potash . .	3, 449	by fermentation .	15, 223
" -slate . . .	3, 451	" decomposition of,	
" uniaxial, or magnesia .	3, 422	by heat . . .	15, 218
Microcosmic salt . . .	3, 118	" decomposition of,	
Microline . . .	3, 442	by heating in the	
Middletonite . . .	17, 440	air . . .	15, 219
Miemite . . .	3, 253	" decomposition of,	
Mignonne oil . . .	14, 383	by heating with	
Mild alkalis . . .	3, 3	water . . .	15, 219
" mineral alkali . . .	3, 78	" decomposition of,	
" vegetable alkali . . .	3, 14	by hydrochloric	
Milk, coagulation of, by rennet	18, 312	acid . . .	15, 221
" " by metallic		" decomposition of,	
salts . . .	18, 315	by iodic acid . .	15, 221
" of the Cow-tree . . .	17, 351	" decomposition of,	
" <i>Hura crepitans</i> . . .	17, 352	by iodine . .	15, 219
" lime . . .	3, 183	" decomposition of,	
" phenomena exhibited by,		by lead-oxide . .	15, 223
during fermentation .	7, 103	" decomposition of,	
" precipitation of, by alco-		by mercuric	
hol . . .	18, 318	oxide . . .	15, 223
" precipitation of casein from,		" decomposition of,	
by acids . . .	18, 314	by nitrate of	

	silver, and nitrate of argentammonium	15, 223	Mixture, formation of chemical compounds by ..	1, 86
Milk-sugar,	decomposition of, by nitric acid ..	15, 220	„ nature of ..	1, 20
„	decomposition of, by nitrosulphuric acid	15, 221	Models for electrotyping, metallic ..	1, 507
„	decomposition of, by oxidation in contact with spongy platinum ..	15, 219	„ for electrotyping, non-metallic ..	1, 508
„	decomposition of, by permanganate of potash ...	15, 222	Mohs' crystallographic nomenclature ...	1, 17
„	decomposition of, by phosphoric acid ..	15, 221	<i>Moiré métallique</i> ..	1, 19
„	decomposition of, by potash ..	15, 222	Molecular rotatory power ..	15, 245
„	decomposition of, by potassium ..	15, 222	<i>Molécules intégrantes et soustraites</i>	1, 19
„	decomposition of, by sodium ..	15, 222	<i>Mollusca</i> , phosphorescence of	1, 182
„	decomposition of, by sulphuric acid ..	15, 221	Molybdates ..	4, 56
„	decomposition of, by tartaric acid ..	15, 221	Molybdate of Ammonia ..	4, 66
Milky sap of <i>Tabernamontana utilis</i> ..	..	17, 351	„ Antimonic oxide ..	4, 390
Millefoil oil ..	..	14, 384	„ Auric oxide ...	6, 237
Millon's mercury-solution, reaction of, with proteides ..	..	18, 262	„ Baryta ..	4, 75
Miloschine ..	..	3, 413	„ Bismuth-oxide ..	4, 448
Mine-gas ..	..	7, 249	„ Cadmic oxide ..	5, 65
Mineral alkali ..	..	3, 74	„ Cerous oxide ..	4, 77
„ alkali, mild ..	..	3, 78	„ Chromic oxide ..	4, 156
„ blue ..	..	5, 415	„ Cobalt-oxide	5, 347
„ chameleon ....	..	4, 233	„ Cupric oxide	5, 467
„ green ..	..	5, 414	„ Ethylamine	13, 481
„ kermes ..	..	4, 340	„ Ferric oxide ...	5, 297
„ turbit ..	..	6, 28	„ Lead-oxide ..	5, 167
Minerals, action of oxalic acid on ..	..	13, 515	„ Lime ...	4, 76
Mine-tin, Bohemian and Saxon ..	..	5, 67	„ Magnesia	4, 77
Minium ..	..	5, 118	„ Manganous oxide ..	4, 246
„ solution of, in strong vinegar ..	..	8, 320	„ Mercurous oxide ...	6, 112
Mirror-glass ..	..	3, 380	„ Nickel-oxide ..	5, 387
Mispickel ..	..	5, 309	„ Potash ..	4, 69
Mitis green ..	..	8, 329	„ Silver-oxide	6, 183
Mitscherlich's system of crystallography ...	..	1, 16	„ Soda ..	4, 73
„ theory of isomorphism ..	..	1, 98	„ Stannic oxide ...	5, 101
Mixed gases, absorption of, by water ....	..	2, 67	„ Strontia ..	4, 76
„ vapours, tension of ..	..	1, 265	„ Terchloride of Molybdenum ...	4, 64
Mixture and Combination, difference between....	..	1, 149	„ Thorina ..	4, 78
			„ Uranic oxide	4, 193
			„ Uranous oxide ..	4, 193
			„ Vanadic oxide ..	4, 104
			„ Yttria ..	4, 78
			„ Zinc-oxide ..	5, 47
			„ Zinc-oxide and Ammonia ..	5, 48
			„ Zinc-oxide and Potash ...	5, 48
			Molybdenum ..	4, 48
			„ Acetate ..	8, 305
			„ alloys ..	4, 80
			„ blue oxide of ..	4, 53
			„ Chlorides ..	4, 63
			„ compounds, solubility of, in alcohol	8, 269
			„ glance ...	4, 59
			„ olive-green oxide ..	4, 53

Molybdenum	Oralates . . .	9, 136	Molybdic oxide and Soda, Carbo-		
"	in pig-iron	5, 297	nate of	4, 73	
"	Succinate . . .	10, 122	" oxide and Soda, Hy-		
"	Sulphocyanide . .	8, 85	drofluat of . . .	4, 74	
"	Terchloride, Mo-		" salts .. .	4, 52	
"	lybdate of . . .	4, 64	" Sulpharsenite .	4, 312	
"	and Copper, alloy		" Sulphide	4, 59	
"	of . . .	5, 467	Molybdiide of Iron ..	5, 297	
"	and Gold, alloy		" Lead	5, 167	
"	of . . .	6, 237	Molybdous Chloride ..	4, 63	
"	and Iron, Cyanides		" oxide . . .	4, 49	
"	of . . .	7, 487	" oxide, Arsenate of .	4, 311	
"	and Platinum, alloy		" oxide, Borate of .	4, 57	
"	of . . .	6, 331	" oxide, Hydriodate of	4, 63	
"	and Silver, alloy		" oxide, Hydrofluat of	4, 65	
"	of . . .	6, 183	" oxide, Nitrate of ..	4, 66	
Molybdic acid . . .		4, 55	" oxide, Silicate of ..	4, 78	
" acid, Arseniate of .		4, 311	" oxide, Sulphates of ..	4, 62	
" acid, Borate of		4, 58	" oxide, Tartrate of ...	10, 293	
" acid, Chromate of ..		4, 156	" oxide and Ammonia,		
" acid with Fluxes . .		4, 73	Carbonate of . .	4, 68	
" acid, Hydrochlorate			" oxide and Ammonia,		
of .. .	4, 65		Hydrochlorate of ..	4, 69	
" acid, Hydrofluat of .	4, 65		" oxide and Ammonia,		
" acid, Nitrate of .. .	4, 66		Hydrofluat of .	4, 69	
" acid, Sulphates of .	4, 62		" oxide and Ammonia,		
" acid, Tartrate of .	10, 293		Phosphate of . .	4, 68	
" acid and Silica, Hy-			" oxide and Potash,		
drofluat of . . .	4, 79		Hydrochlorate of ..	4, 72	
" chloride	4, 63		" oxide and Potash,		
" oxide .. .	4, 51		Hydrofluat of .	4, 72	
" oxide, Arseniate of ...	4, 311		" oxide and Silica, Hy-		
" oxide, Borate of	4, 57		drofluat of . . .	4, 79	
" oxide, Chromates of...	4, 156		" oxide and Soda, Hy-		
" oxide, Hydrochlorate			drofluat of .. .	4, 74	
of	4, 64		" salts	4, 51	
" oxide, Hydrofluat of	4, 65		" Sulphide	4, 59	
" oxide, Hydriodate of ...	4, 63		Monatomic gases . . .	1, 53	
" oxide, Nitrate of	4, 66		Monazite . . .	3, 265	
" oxide, Silicate of .. .	4, 78		Monoacetin . . .	9, 496	
" oxide, Sulphate of .	4, 62		" Glycolic . . .	13, 429	
" oxide, Tartrate of ..	10, 293		Monoarachin . . .	17, 373	
" oxide, Tungstate of ...	4, 79		Monobenzoin . . .	12, 104	
" oxide and Ammonia,			Monobromacetone . . .	13, 464	
Carbonate of	4, 68		Monobromhydrin . . .	13, 574	
" oxide and Ammonia,			Monobutyrin	10, 93	
Hydrofluat of	4, 69		Monochloracetal . . .	13, 477	
" oxide and Ammonia,			Monochloracetamide . . .	12, 541	
Tungstate of . . .	4, 79		Monochloracetate of Ethyl	12, 540	
" oxide and Potash, Car-			Monochloracetates, metallic	12, 537	
bonate of .. .	4, 70		Monochloracetic acid .	9, 192; 12, 537	
" oxide and Potash, Hy-			" ether . . .	12, 540	
drofluat of ...	4, 72		Monochloracetone . . .	13, 463	
" oxide and Potash, Sul-			Monochlorhydrin . . .	9, 498	
phate of . . .	4, 72		Monochlorinated Hydrochloric		
" acid and Potash, Tar-			ether	8, 375	
trate of . . .	10, 293		" Methyl-ether....	7, 289	
" oxide and Silica, Hy-			" Methylic sul-		
drofluat of ...	4, 79		phide	10, 500	

Monochlorinated Vinic ether	9, 192	Morphine, Picrate ..	16, 436
Monochlorometaldehyde ..	12, 536	" precipitation of, by	
Monolein	17, 84	fluosilicic alcohol,	
Monopalmitin ..	16, 376	phosphantimonic,	
Monophocenin ..	11, 75	phosphomolybdic,	
Monosaccharides ..	15, 317	and phosphotungstic	
Monostearin	17, 117	acids, chloride of	
Monovalerin ..	11, 75	cadmium, and chro-	
Moonlight, heat of	1, 166	mate of potash ..	16, 432
Mordants, use of, in dyeing	15, 141	" precipitation of, by	
Morels, oil of ..	17, 97	mercuric nitrate ..	16, 433
Morin ..	15, 477	" preparation of ..	16, 416
Morindin ..	16, 190	" purification of ..	16, 418
Morindine ..	16, 189	" Pyrotartrate ..	16, 436
<i>Moringa oleifera</i> , oil of	16, 386	" reactions of, with hy-	
Moringic acid ..	17, 74	pochlorites, chlo-	
Morintannates, metallic	15, 475	rine-water, and chlo-	
Moritannate of Quinine	17, 293	rate of potash ..	16, 535
Moritannic acid ..	15, 473	" reaction of, with sul-	
Morphia, <i>see</i> Morphine.		phuric acid and fer-	
Morphine, Acetate	16, 434	ric chloride ..	16, 535
" Aspartate ..	16, 435	" Rhodizonate ..	16, 436
" Betuloretate ..	17, 404	" solutions of ..	16, 429, 437
" Carbonate ..	16, 430	" sources of ..	16, 414
" Chlorate ..	16, 431	" Sulphate ..	16, 430
" Chloromercurate ..	16, 433	" Tannate	16, 436
" Chloroplatinate ..	16, 433	" Tartrate ..	16, 435
" composition and pro-		" Urate ..	16, 436
properties of ..	16, 424	" Valerate	16, 436
" compounds of, with		Morphium ..	16, 414
Alkalis ..	16, 437	Mortar, common ..	3, 392
" compounds of, with		" hydraulic ..	3, 389
Organic oxides ..	16, 437	Mosaic Gold ..	5, 79, 479
" Croconate ..	16, 436	Mosandrite ..	3, 488
" crystallised... ..	16, 424, 429	Mottled Pig-iron ..	5, 212
" Cyanurate ..	16, 435	Mountain-ash berries, preparation	
" decomposition of ..	16, 424	of Malic acid from ..	10, 208
" detection of, with		" -ash, wax from the fruit	
sulphuric and ni-		of	18, 161
tric acids	16, 534	" blue	5, 415
" estimation of, in		" butter	5, 276
opium ..	16, 423	" green	8, 329
" Formiate	16, 433	Mucamide ..	11, 523
" Hippurate ..	16, 436	Mucate of Ammonia ..	11, 504
" Hydriodate ..	16, 431	" Ethyl ..	11, 510
" Hydrochlorate ..	16, 431	" Methyl ..	11, 509
" Hydrocyanate, with		Mucates, metallic ..	11, 505
Cyanide of Plati-		Mucedin of Rye ..	18, 444
num	16, 433	" Wheat	18, 443
" Hydrofluante ..	16, 432	Mucic acid	11, 502
" Hyposulphite	16, 430	" acid, copulated acids pro-	
" Hydrosulphocyanate	16, 434	duced by ..	7, 227
" Kinate	16, 436	Mucilage, vegetable ..	15, 209
" Meconate	16, 436	Mucin of connective tissue	18, 341
" Mellitate	16, 435	Mucin, from mucous animal	
" memoirs relating to	16, 413	fluids ..	18, 340
" Nitrate	16, 432	" of the salivary glands ..	18, 345
" Perchlorate....	16, 431	" of snails ..	18, 340
" Phosphate ..	16, 430	" vegetable ..	18, 424, 443

- Mucons fermentation ... 7, 99
 Mucus, animal, only partly agreeing with mucin ... 18, 344
 „ of the gall-bladder ... 18, 345
 „ of *Lamar agrestis* ... 18, 344
 „ of the nose and respiratory passages ... 18, 346
 „ peptone ... 18, 344
 „ vegetable ... 15, 209
 Mudarin ... 18, 235
 Mugwort oil ... 14, 385
 Mulder's derivatives of protein substances ... 18, 263
 „ researches on proteides ... 18, 252
 Multiplier, electric ... 1, 317
Murex brandaris and *M. trunculus*, colouring matter of ... 18, 421
 Murexan ... 10, 203
 Murexide ... 10, 192
 „ decompositions of ... 10, 195
 „ preparation of, from alloxan, alloxantin, uramil ... 10, 194
 „ preparation of, from uric acid ... 10, 193
 „ properties of ... 10, 195
 Muriate of Ammonia ... 2, 478
 „ of Mercury ... 6, 53
 Murates ... 2, 353
 „ hypothetically anhydrous ... 2, 351
 Muriatic acid ... 2, 319
 „ acid, deplogisticated or oxygenated ... 2, 289
 „ ether ... 8, 368
 Murrayetin ... 18, 235
 Murrayin ... 18, 235
Musa ferrea, oil of the fruit of ... 17, 97
 Muscle fibrin ... 18, 268
 „ of the heart, preparation of Inosite from ... 15, 352
 „ plasma, preparation of ... 18, 267
 „ plasma, preparation of Myosin from ... 18, 267
 „ serum ... 18, 267
 Muscular flesh, occurrence of inosmic acid in ... 11, 119
 „ flesh, putrefaction of ... 7, 104
 Musculin ... 18, 268
 Musical notes produced by a hydrogen flame in a glass tube ... 2, 58
 Mussel shells, conchiolin obtained from ... 18, 371
 Mustard, fatty oils of black and white ... 17, 553
 „ oil ... 10, 41
 „ oil, fatty preparation of emic acid from ... 17, 549
 Mustard oil, formation of ... 10, 50
 „ oils related to oil of ... 10, 54
 „ oil, with Sulphide of Barium ... 10, 49
 „ oil, with Sulphide of Potassium ... 10, 49
 „ and Garlic oils, mixtures of ... 10, 56
 „ peculiar acid obtained from ... 10, 57
 „ white, acid principle of ... 14, 527
 Mutton fat ... 16, 394
 Mycomelate of Ammonia ... 10, 183
 „ Silver ... 10, 183
 Mycomelic acid ... 10, 182
 Mycose ... 15, 301
 Myelin forms ... 18, 374
 Myle ... 11, 1
 Myosin ... 18, 266
 „ formation of syntonin from ... 18, 268
 Myrica tallow ... 16, 394
 Myricin ... 18, 153
 Myricyl alcohol ... 18, 150
 Myristate of Benzoyl ... 16, 216
 „ Ethyl ... 16, 215
 Myristates, metallic ... 16, 212
 Myristearin, see Myristin.
 Myristic acid ... 16, 209
 „ anhydride ... 16, 217
 „ ether ... 16, 215
 „ and Lauric acids, melting points of mixtures of ... 16, 214
 „ Lauric, and Palmitic acids, melting and solidifying points of mixtures of ... 16, 364
 „ and Margoric acids, melting points of mixtures of ... 16, 473
 „ Palmitic, and Stearic acids, melting points and mode of solidification of mixtures of ... 17, 114
 „ and Stearic acids, melting points and mode of solidification of mixtures of ... 17, 113
 Myristica, fats from various species of ... 16, 395
 „ *sebyfera*, tallow of ... 16, 396
 Myristin ... 16, 315
 „ composition of ... 7, 238
 Myristyl Hydride, see Tetrade-cetyl Hydride.
 Myronate of Potash ... 15, 346, 418
 Myronic acid ... 10, 53
 Myrosin ... 10, 54

<i>Myrospermum toluiferum</i> , Tolu		<i>Myrrh</i>	17, 425
balsam obtained from ..	17, 392	„ oil of	14, 413
<i>Myroxocarpin</i>	18, 289	<i>Myrtile-oil</i>	14, 385
<i>Myroxylon peruiferum</i> , Peru		„ -wax	16, 394
balsam from... ..	17, 389	<i>Mysoline</i>	5, 414

N.

<i>Nacrite</i>	3, 418	<i>Naphthulmin</i>	14, 26
<i>Nails</i> , composition of ..	18, 348	<i>Naphthyl</i> , Bromide of, <i>see</i> Bro-	
<i>Napelline</i>	18, 177	monaphthalin.	
<i>Naphtha</i>	12, 438	„ <i>Cyanite</i>	14, 118
„ crude or light ..	11, 135	„ <i>Sulphocyanide</i>	14, 119
„ heavy	11, 135	<i>Naphthylamine</i>	14, 98
<i>Naphtha vitrioli</i>	8, 171	„ acid from ..	13, 352
<i>Naphthalase</i>	14, 25	„ salts of ..	14, 99
<i>Naphthalese</i> , binitrite of, <i>see</i>		<i>Naphthylcarbamide</i> ..	14, 119
<i>Binitronaphthalin</i>		<i>Naphthylsulphurous Chloride</i> .	14, 505
<i>Naphthalidam</i> ? <i>see</i> <i>Naphthyla-</i>		<i>Naphthyl-urea</i> ..	14, 119
mine.		<i>Naphthum</i> , <i>see</i> <i>Naphthalin</i> .	
„ -carbamide, <i>see</i>		<i>Naples yellow</i>	5, 175
<i>Carbonaphtha-</i>		<i>Narceine</i>	17, 597
<i>lide</i> .		„ salts	17, 600
„ <i>sulphocarbamide</i> ,		<i>Narcitin</i>	18, 236
<i>see</i> <i>Sulphocar-</i>		<i>Narcogenine</i>	16, 149
<i>bonaphthalide</i> .		<i>Narcotic vitriol salt</i> ..	2, 97
<i>Naphthalin</i>	14, 1	<i>Narcotinate of Potash</i> ...	16, 148
„ chloride of, Lau-		<i>Narcotine</i>	16, 135
rent's	14, 58	„ decomposition of, by	
„ combinations of ..	14, 9	bromine and chlo-	
„ decompositions of..	14, 7	rine	16, 139
„ formation of, in the		„ decomposition of, by	
decomposition of		dilute sulphuric acid	
organic bodies by		and peroxide of	
heat	14, 2	manganese	16, 141
„ hydrocarbons iso-		„ decomposition of, by	
meric with, ob-		electrolysis ..	16, 139
tained by the dry		„ decomposition of, by	
distillation of the		ethyl iodide ..	16, 142
benzoates	14, 11	„ decomposition of, by	
„ natural	18, 249	heat	16, 138
„ preparation of, from		„ decomposition of, by	
coal-tar	14, 3	heating in contact	
„ production of, in		with air	16, 139
the dry distillation		„ decomposition of, by	
of coal	7, 84	hydriodic acid ..	16, 140
„ properties of ..	14, 5	„ decomposition of, by	
„ purification of ..	14, 5	hypochlorite of soda	16, 352
<i>Naphthalocyanic acid</i> ..	14, 118	„ decomposition of, by	
<i>Naphthameine</i> , <i>see</i> <i>Oxynaphthyl-</i>		hyponitric acid ..	16, 140
<i>amine</i> .		„ decomposition of, by	
<i>Naphthase</i> , <i>see</i> <i>Naphthalase</i> .		heating with water	
<i>Naphthene</i>	13, 368	in a sealed tube ..	16, 139
<i>Naphthesic acid</i>	14, 27	„ decomposition of, by	
<i>Naphthionamite</i>	14, 507	mercuroso-mercure	
<i>Naphthionates</i>	14, 112	nitrate	16, 142
<i>Naphthionic acid</i> ..	14, 110	„ decomposition of, by	
<i>Naphthol</i>	15, 39	nitric acid ..	15, 140, 532

- Narcotine, decomposition of, by
platinic chloride .. 16, 142
- „ decomposition of, by
potash .. 16, 141
- „ decomposition of, by
red prussate of potash .. 16, 142
- „ decomposition of, by
sulphuric acid 16, 140, 532
- „ decomposition of, by
sulphuric acid and
ferric chloride .. 16, 532
- „ memoirs relating to 16, 135
- „ occurrence of, in
opium ... 16, 136
- „ precipitation of, by
picric acid .. 15, 146
- „ preparation of .. 16, 136
- „ preparation of cotarine from ... 16, 130
- „ properties of .. 16, 137
- „ in the root of *Aconitum napellus* ... 18, 175
- „ salts .. 16, 142
- „ solutions of .. 16, 142, 146
- Narthecin .. 18, 236
- Narthecium, colouring matter
and poisonous
principle of .. 18, 237
- „ resin-acid of ... 18, 237
- Nasturtium, oil of ... 14, 385
- Native soda 3, 78
- Natrium* 3, 73
- Natron.... .. 3, 74
- Natronium* 3, 73
- Natrum* 3, 74
- „ *vitriolatum* ... 3, 39
- Natural science, scope of 1, 1
- „ steel 5, 208
- Naumann's crystallographic
nomenclature 1, 17
- Neck-band of the ox, preparation
of leucine from ... 11, 429
- Nectandra Rodia*, preparation
of bebirine from the bark of 17, 170
- Needle iron-ore 5, 197
- Needle-ore .. 5, 488
- Neolite 3, 398
- Nepheline 3, 431
- Nephrite 3, 451
- Nereus*, phosphorescence of .. 1, 185
- Nereum Oleander*, alkaloids obtained from ... 17, 596
- Neroli-camphor 14, 387
- „ oil ... 14, 386
- Neurine (choline) preparation of,
from pig's bile 18, 380
- „ preparation of, from protogon 18, 379
- Neurine (choline) produced by
decomposition of lecitine with baryta-water ... 18, 379
- „ salts of 18, 381
- „ synthesis of ... 18, 379
- Neutralization ... 1, 97
- „ Richter's law
of ... 1, 120
- Neuwieder green ... 8, 329
- Newton: his researches on attraction and light .. 1, 4
- Niccolate of Ammonia .. 5, 379
- „ Baryta .. 5, 386
- „ Ferrous oxide 5, 396
- „ Lime 5, 386
- „ Magnesia 5, 386
- „ Potash 5, 384
- „ Soda 5, 385
- „ Strontia 5, 386
- Niccolo-cupric sulphate .. 5, 497
- „ -iodate of Ammonia 5, 382
- „ -nitrate of Ammonia ... 5, 384
- „ -sulphate of Ammonia . 5, 381
- Niccolum* ... 5, 355
- Nickel . . . 5, 354
- „ Acetate 8, 323
- „ Alloxanate 10, 167
- „ Alloys 5, 397
- „ Aluminate 5, 386
- „ Amalgam ... 6, 130
- „ Ammonio-bromate 5, 383
- „ „ -bromide 5, 382
- „ „ -chloride 5, 383
- „ „ -cobaltidecyanide 7, 501
- „ „ -ferridecyanide 7, 500
- „ „ -ferrocyanide . 7, 500
- „ „ -hyposulphate 5, 380
- „ „ -hyposulphate 5, 380
- „ „ -iodide 5, 381
- „ „ -sulphate 5, 381
- „ „ -sulphocyanide 8, 90
- „ Amylosulphate... 11, 59
- „ Antimoniate 5, 393
- „ Antimonide ... 5, 392
- „ Argentocyanide 8, 33
- „ Arseniate 5, 390
- „ -arsenic glance 5, 491
- „ Arsenides 5, 388
- „ Arsenite .. 5, 390
- „ Aspartate 10, 237
- „ Azelaate 17, 81
- „ Benzoate 12, 43
- „ Biethylphosphate 8, 402
- „ Bisulphide 5, 371
- „ „ with antimonide of nickel 5, 393
- „ Bisulphide with protoarsenide of nickel ... 5, 391

Nickel, black earthy	5, 365	Nickel, Picrate	11, 226
" Borate	5, 368	" Platinocyanide with am-	
" Bromate	5, 377	monia	8, 55
" Bromide	5, 376	" Plumbite	5, 394
" Camphorate	14, 461	" Protoarsenide with bi-	
" Carbide	5, 366	sulphide of nickel . . .	5, 391
" Carbonate	5, 366	" Protosulphide	5, 370
" Chlorate	5, 378	" Protoxide	5, 362
" Chloride	5, 377	" Pyrites, white	5, 389
" " with Cyanide		" Pyromucate	10, 385
of Mercury	8, 26	" Pyrophosphate	5, 369
" Chloropalladite	6, 357	" Pyrotartrate	11, 97
" Chloroplatinate	6, 337	" Racemate	10, 359
" Chromate	5, 387	" reactions of	5, 363
" Citrate	11, 459	" reduced by hydrogen,	
" Cobaltidcyanide	7, 500	effect of, in inducing the	
" Croconate	10, 394	combination of oxygen	
" Cuprocyanide	8, 11	and hydrogen	2, 53
" Cyanide	7, 49	" Rhodizionate	10, 403
" Disulphide	5, 369	" salts	5, 363
" Ferridcyanide	7, 500	" " solubility of, in al-	
" Ferrite	5, 396	cohol	8, 271
" Ferrocyanide	7, 499	" Sarcocactate	11, 500
" Fluoride	5, 379	" Seleniate	5, 374
" Formate	7, 281	" Selenite	5, 374
" Fumarate	10, 30	" separation of, from cobalt	
" Gallate	12, 411		5, 319, 360
" Hippurate	12, 80	" Styphnate	11, 234
" Hydrate	5, 363	" Succinate	10, 127
" Hydriodate	5, 375	" Sulphantimoniate . .	5, 393
" Hydrobromate	5, 576	" Sulpharseniate	5, 392
" Hydrochlorate	5, 378	" Sulpharsenite	5, 392
" Hydrosulphate	5, 371, 373	" Sulphate	5, 373
" Hypophosphite	5, 363, 371	" Sulphides	5, 369
" Iodate	5, 376	" Sulphite	5, 372
" Iodide	5, 374	" Sulphocarbonate . . .	5, 374
" Itaconate	10, 427	" Sulphocyanide	8, 90
" Kinate	16, 232	" Sulphomolybdate . . .	5, 387
" Lactate	11, 492	" Sulphotellurate . . .	5, 393
" Maleate	8, 158	" Sulphotungstate . . .	5, 387
" Mellitate	10, 9	" Sulphovinate	8, 427
" Metaphosphate	5, 369	" Tellurate	5, 393
" Methylbithionate	12, 489	" Tellurite	5, 393
" Molybdate	5, 387	" Tungstate	5, 386
" Nitrate	5, 379	" Valerate	11, 36
" Nitride ?	5, 379	" Vanadate	5, 387
" Oleate	17, 73	" and Aluminium, fluoride of	5, 386
" Oxalate	9, 163	" and Ammonium, carbon-	
" " with ammonia	9, 163	ate of	5, 379
" Oxide	5, 362	" and Ammonium, chloride	
" " with fluxes	5, 385	of	5, 383
" Oxychloride	5, 378	" and Ammonium, cyanide	
" Oxyfluoride	5, 379	of	7, 498
" Oxyiodide ?	5, 375	" and Ammonium, fluoride	
" Peroxide	5, 365	of	5, 384
" Persulphomolybdate . . .	5, 387	" and Ammonium, hydro-	
" Phosphate	5, 369	sulphate of	5, 380
" Phosphide	5, 368	" and Ammonium, phos-	
" Phosphite	5, 368	phate of	5, 380

Nickel and Ammonium,		Nicotine, Iodate	14, 227
mate of	10, 381	" with Mercuric Chloride	14, 228
" and Ammonium, sulphate		" with Mercuric Chloride	
of	5, 381	and Cyanide	14, 229
" and Bismuth, alloy of	5, 393	" with Mercuric Iodide	14, 228
" sulphide of	5, 393	" Nitrate	14, 227
" and Cobalt, alloy of	5, 397	" with Nitrate of Silver	14, 229
" cyanide of	7, 500	" Oxalate	14, 231
" and Copper, alloy of	5, 497	" Phosphate	14, 227
" cyanide of	8, 11	preparation of	14, 221
" Copper, and Potassium,		Purpurate	14, 232
sulphate of	5, 497	sources of	14, 220
" Copper, and Zinc, alloy		Sulphate	14, 227
of	5, 497	Tartrate	14, 232
" and Gold, alloy of	6, 246	Nigella oil	14, 388
" chloride of	6, 246	<i>Nigella sativa</i> , oil of the seeds	
" and Iron, alloys of	5, 394	of	17, 97
" carbide of	5, 396	Nigellin	18, 237
" sulphate of	5, 397	Nigrine	5, 291
" sulphide of	5, 396	<i>Nihilum album</i>	5, 5
" and Lead, alloy of	5, 394	Ninaphthase, <i>see</i> Nitronaphthalin.	
" and Magnesium, phos-		Ninaphthase, <i>see</i> Binitronaphtha-	
phate of	5, 386	lin.	
" and Mercury, chloride of	6, 130	Ninaphthalidine, <i>see</i> Ninaphthyl-	
" and Palladium, alloys of	6, 357	amine.	
" and Platinum, alloy of	6, 337	Ninaphthylamine	14, 106
" and Potassium, cyanide of	7, 493	Ninaphthim, <i>see</i> Nitronaphthalese.	
" fluoride of	5, 385	Ninaphthise, <i>see</i> Ternitronaph-	
" sulphate of	5, 384	thalin.	
" and Silicium, hydrated		Niobates	4, 17
fluoride of	5, 386	Niobic acid	4, 16
" and Silver, alloy of	6, 196	" sulphate of	4, 18
" and Sodium, metaphos-		Niobium	4, 15
phate of	5, 385	" Chloride	4, 18
" and Tin, alloy	5, 394	" Sulphide	4, 18
" and Uranium, acetate of	13, 445	Nitacrol	9, 502
" and Zinc, alloy of	5, 394	Nitramidin	15, 106
" sulphate of	5, 394	Nitraniline	9, 288
" -bismuth-glance	5, 393	" α , preparation of, by	
" -glance	5, 391	reduction of bini-	
Nickeliferous grey antimony	5, 393	trobenzene	11, 288
Nickel-ochre	5, 390	" β , preparation of,	
" -silver	5, 497	from pyrotartoni-	
<i>Nicotiana Tabacum</i> , oil from the		tranil	11, 288
seeds of	16, 314	" -urea	11, 304
Nicotianine	14, 232	Nitran	2, 16
Nicotinic acid	10, 229	Nitranisate of Ethyl	13, 140
Nicotine	14, 219	" Methyl	13, 139
" Acetate	14, 231	Nitranisates, metallic	13, 138, 585
" aqueous	14, 226	Nitranisic acid	13, 137
" Chloromercurate	14, 229	Nitraniside	14, 218
" Chloroplatinate	14, 231	Nitranisidine	12, 266
" Chloroplatinite	14, 230	Nitranisol	12, 263
" decompositions of	14, 224	Nitranisyl, chloride	13, 142
" estimation of, in to-		Nitrates	2, 400
bacco	14, 223	Nitrate of Acetamide	12, 545
" formation of	14, 220	" Acetostannethy	9, 102
" hydrated	14, 226	" Acetylum	10, 539
" Hydrochlorate	14, 227	" Alanine	9, 436

Nitrates, alkaline, electrolysis of	1, 461	Nitrate of Cupric oxide	.. 5, 446
Nitrate of Alumina ..	3, 318	.. Cyanethine .	13, 236
.. Amarine ..	12, 196	.. Cyaniline	11, 361
.. Amidobenzoic acid ..	12, 145	.. Cystane ...	9, 441
.. Amidonitraniline	11, 295	.. Didymum ..	3, 281
.. Ammeline ...	9, 475	.. Diplatinamine	6, 311, 316
.. " and Silver	9, 476	.. Diplatosamme	6, 310
.. Ammonia ...	2, 490	.. Ethyl	8, 471; 13, 456
.. Amyl	11, 64	.. Ethylamme ..	9, 60
.. Amylstrychnine ..	17, 515	.. Ethylene-stannethyl	9, 101
.. Aniline	11, 259	.. Ethyl-mercuric	.. 8, 477
.. Anthranilic acid ..	12, 328	.. Ethyl-nicotine ..	14, 237
.. Antimonic oxide ...	4, 371	.. of Ethyl-quinine	.. 17, 309
.. Arsenitriethyl ...	9, 76	.. Ethylstannethyl	9, 106
.. Asparagine	10, 246	.. Ethylstrychnine	.. 17, 512
.. Aspartic acid ...	10, 233	.. Ferric oxide	5, 258
.. Atropine ..	16, 451	.. Ferrous oxide ..	5, 257
.. Auric oxide	6, 222	.. Fucusine ...	10, 382
.. Baryta ..	3, 163	.. Farfurine ...	10, 380
.. " electrolysis of	1, 462	.. Glucina ...	3, 300
.. " with Phos-		.. Glycoccol ...	9, 253
.. " phate of		.. Guanine ..	10, 482
.. Baryta ..	3, 166	.. Harmaline .	16, 118
.. " and Potash ..	3, 164	.. Harmine ..	16, 106
.. Benzidine .	11, 340	.. Hydrargethyl	9, 109; 10, 532
.. Berberine ..	17, 192	.. Hydroberberine	.. 17, 256
.. Biamidobenzoic acid	12, 150	.. Hydrocyanharmaline	16, 122
.. Bichlorocinchonine	17, 238	.. Iridious oxide	6, 381
.. Bichloroharmine .	16, 109	.. Lanthanic oxide ..	3, 279
.. Bisethyl .	9, 90	.. Lead-oxide ..	5, 156
.. Bismethyl .	9, 89	.. Lead-oxide, aqueous,	
.. Bismuth-oxide .	4, 440	.. electrolysis of	1, 463
.. Brucine	17, 581	.. Lead-oxide, with flu-	
.. Butyl ...	10, 106	.. oride of lead ...	5, 158
.. Cadmic oxide ...	5, 61	.. Lepidine ..	14, 104
.. Caffeine .	13, 232	.. Lime ...	3, 214
.. Capryl ...	13, 198	.. Lime, alcoholate of	8, 267
.. Caprylamine	13, 221	.. Lime, compound of,	
.. Casein ...	18, 314	.. with urea ...	7, 373
.. Ceric oxide	3, 272	.. Lithia ...	3, 131
.. Cerous oxide	3, 271	.. Lophine ...	12, 202
.. Chelidonium ..	17, 166	.. Magnesia ..	3, 244
.. Chloraniline	11, 284	.. Magnesia, alcoholate	
.. Chinoline .	13, 249	.. of .	8, 268
.. Chromic acid .	4, 140	.. Magnesia and Am-	
.. Chromic oxide	4, 140	.. monia .	3, 248
.. Cinchonidine		.. Magnesia, compound	
.. 17, 225, 228, 613		.. of urea with	7, 373
.. Cinchonine ...	17, 210	.. Magnesia and Lime	3, 354
.. Cinnamic Aldehyde	13, 262	.. Manganous oxide ...	4, 231
.. Cobalt-oxide	5, 338	.. Melaniline .	11, 354
.. Cobalt-oxide and Am-		.. Menaphthylamine	.. 14, 126
.. monia	5, 342	.. Mercurialine ..	18, 201
.. Cocaine	16, 302	.. Mercuric	6, 74
.. Codeine	17, 33	.. Mercuric, compounds of	
.. Conine ...	13, 165	.. bases with mercuric	
.. Corydaline	17, 609	.. amide ..	6, 94
.. Creatine	10, 254	.. Mercuric, with cyanide	
.. Cumidine	13, 350	.. of mercury .	8, 17

Nitrate of Mercuric oxide with mercuric Iodide	6, 76	Nitrate of Potash with Bichromate of Potash	4, 151
" Mercuric oxide with iodide of Silver	6, 199	" Potash, preparation of Oxygen by ignition of	2, 22
" Mercuric oxide with phosphide of Mercury	6, 76	" Potash with Sulphotungstate of Potash	6, 40
" Mercuric oxide with sulphide of Mercury	6, 76	" Quinidine	17, 300
" Mercuric oxide, compound of Urea with	7, 374	" Quinine	17, 283
" Mercuroso - mercuric oxide	6, 73	" Quinine and Silver	17, 285
" Mercurous methyl	13, 399	" Rhodic oxide	6, 364
" Mercurous oxide	6, 69	" Rhodic oxide and Soda	6, 367
" Mercurous oxide and Ammonia	6, 91	" Selenethyl	8, 357
" Mercurous oxide and Guanine	10, 483	" Serine	18, 369
" Mercurous oxide, with phosphide of Mercury	6, 75	" Sesquioxide of Osmium and Ammonia	6, 416
" Methylaniline	7, 317	" Silica	3, 368
" Methyl	7, 308	" Silver-oxide	6, 168
" Methylplumbethyl	9, 108	" Silver-oxide, decomposition of urea by	7, 369
" Methylstannethyl	9, 104	" Silver-oxide, electrolysis of	1, 464
" Methylstrychnine	17, 509	" Silver-oxide with Alkarsin	9, 325
" Molybdic acid	4, 66	" Silver-oxide and Allyl	9, 364
" Molybdic oxide	4, 66	" Silver-oxide with Cyanamide of Mercury	8, 33
" Molybdous oxide	4, 66	" Silver-oxide and Guanine	10, 483
" Morphine	18, 432	" Silver-oxide and Mercuric oxide	6, 199
" Naphthylamine	14, 100	" Silver-oxide with Lophine	12, 203
" Narceine	17, 600	" Silver-oxide with Melaniline	11, 354
" Nicotine	14, 227	" Silver-oxide with Nicotine	14, 229
" Nickel-oxide	5, 379	" Silver-oxide and Potash	6, 179
" Nitranisidine	12, 267	" Silver-oxide with Quinidine	17, 300
" Nitroharmanine and Silver	16, 125	" Silver-oxide and Theobromine	12, 473
" Nitroharmanine	16, 111	" Silver-oxide with Urea	7, 374
" Nitropapaverine	17, 261	" Sinapine	14, 526
" Nitrotyrosine	13, 363	" Soda	3, 117
" Osmious oxide	6, 415	" compound of, with urea	7, 372
" Oxyacanthine	17, 199	" and Potash	3, 120
" Palladious oxide	6, 350	" Solanidine	18, 87
" Palladious oxide and Ammonia	6, 353	" Stannethyl	9, 99
" Papaverine	17, 260	" Stannic oxide	5, 92
" Peroxide of Silver	6, 172	" and Ammonia	5, 95
" Phloramine	15, 70	" Stannous oxide	5, 92
" Phthalidine	13, 34	" Stibethyl	9, 84; 10, 527
" Picoline	11, 268	" Stibmethylum	7, 327
" Piperidine	10, 449		
" Platinamine	6, 311, 315		
" Platonic oxide and Soda	6, 329		
" Potash	6, 323		
" Platonic oxide	6, 296		
" Platinous oxide	6, 296		
" Platostamine	6, 311		
" Potash	3, 68		

Nitrate of Strontia ..	3, 179	the combination	
" " emission of		of, with water	1, 295
" light in the crystal-		Nitric acid, impurities in ..	2, 392
" lisation of....	1, 208	" oxidation of organic	
" Strychnine ..	17, 494	" compounds by	7, 123
" Strychnine-bromethyl-		" passive state of iron	
" ammonium ..	17, 518	" immersed in ..	1, 355
" Tellurethyl ..	8, 387	" presence of, in the	
" Telluric oxide	4, 413	" air	2, 411
" Telluromethyl ..	10, 494	" presence of, in com-	
" Theobromine ..	12, 472	" mon sulphuric	
" Thialdine ..	9, 314	" acid	2, 181
" Thorina ..	3, 335	" properties of	2, 393
" " and Potash	3, 336	" tests for ..	2, 401
" Titanic oxide	3, 483	" use of, in the manu-	
" Tungstic acid	4, 37	" facture of chlorine	2, 291
" Uranic oxide ..	4, 182	Nitric Ether ..	8, 475
" Urea ..	7, 370	Nitric Oxide ..	2, 377
" Vanadic acid ..	4, 96	" absorption of, by	
" " oxide ..	4, 96	" alcohol	8, 265
" Yttria ..	3, 290	" and ammonia, sul-	
" Zinc ..	5, 33	" phite of	2, 492
" Zirconia	3, 346	" compound of, with	
Nitratooxygen ...	2, 16	" bichloride of pla-	
Nitrazobenzene	11, 343	" tinum? ..	6, 295
Nitrazophenylamine	11, 293	" compound of, with	
Nitrazoxybenzene	11, 343	" hæmoglobin ...	18, 393
Nitre ..	3, 68	" compounds of, with	
" cubic ..	3, 117	" acids ..	2, 379
" with Sulphomolybdate of		" evolution of, from	
" Potassium ..	4, 73	" vegetable sub-	
" use of, for preserving		" stances (leaves,	
" meat ...	7, 117	" roots, &c.), during	
Nitric acid ..	2, 386	" eremacausis ...	7, 93
" action of fuming,		" with fluoride of	
" on volatile oils ..	7, 165	" silicium	3, 368
" action of, on organic		" gas, use of, for pre-	
" compounds ...	7, 122	" serving meat ..	7, 116
" anhydrous ..	2, 389	" and potash, sul-	
" " amount of,		" phite of ..	3, 70
" " in aqueous nitric		" presence of, in com-	
" " acid	2, 395	" mon sulphuric	
" aqueous, preparation		" acid ..	2, 181
" of ..	2, 390	" and soda, sulphite	
" concentration of	2, 393	" of ..	3, 118
" copulated acids pro-		" with stannic chlor-	
" duced by, with		" ide	5, 93
" glyceoll and leu-		" sulphate of ..	2, 445
" cine ..	7, 226	" " combined	
" decomposition of,		" with hydrated	
" by light ...	1, 172	" sulphuric acid ..	2, 447
" decompositions of ...	2, 395	" sulphite of ..	2, 444
" electrolysis of	1, 452	" with tartaric acid	10, 272
" formation of, in the		Nitride of Anisyl, Phenyl, and	
" eremacausis of ni-		Hydrogen	13, 145
" trogenous organic		" Benzoyl, phenyl and	
" bodies ...	7, 92	" benzoyl ..	12, 156
" fuming ..	2, 402	" Benzoyl, salicyl and	
" heat developed in		" Hydrogen	12, 324

Nitride of Binitrobenzoyl and Hydrogen	12, 153	Nitrite of Palladious oxide and Soda	6, 355
„ Cadmium ?	5, 61	„ Potash	3, 67
„ Chlorobenzoyl and Hydrogen	12, 152	„ Silver-oxide and Baryta	6, 181
„ Chromium ..	4, 139	„ Silver-oxide and Soda	6, 181
„ Copper ..	5, 444	„ Soda	3, 116
„ Gold ? ..	6, 222	„ Strontia	3, 179
„ Iron ..	5, 257	Nitrites	2, 361
„ Mercury	6, 66	„ action of, on arterial blood	18, 393
„ „ with hydrated bromate of mercuric oxide	6, 83	Nitro-acids	7, 197
„ Nickel ? ..	5, 379	Nitro-arsenate of mercurous oxide	6, 119
„ Nitrobenzoyl and Hydrogen	12, 152	Nitro-aspartate of lead	10, 237
„ Phenyl, Benzoyl, and Hydrogen	12, 155	Nitrobenzaldide	12, 119
„ Phenyl and Citraconyl ..	11, 321	„ compound of, with bisulphite of ammonia	12, 121
„ Phenyl and Malyl	11, 319	„ compound of, with bisulphite of soda	12, 121
„ Phenyl and Pyrotartryl	11, 326	„ hydride of	12, 119
„ Picramyl ..	12, 191	Nitrobenzamide	12, 152
„ Potassium	3, 66	Nitrobenzamide	12, 269
„ Silicon and Potassium	3, 375	Nitrobenzene	11, 201
„ Sulphobenzoyl and Hydrogen	12, 150	„ preparation of aniline from	11, 240
„ Sulphophenyl, Benzoyl, and Acetyl	12, 159	„ reduction of, to aniline ..	11, 202
„ Sulphophenyl, Benzoyl, and Hydrogen	12, 157	Nitrobenzoate of Ammonia	12, 123
„ Sulphophenyl and Bibenzoyl	12, 159	„ Baryta	12, 124
„ Zinc ..	5, 33	„ Bibromocarbolic acid	12, 132
Nitrides	7, 23	„ Bibromophenyl	12, 132
„ metallic	2, 494	„ Binitrocarboic acid	12, 133
Nitriacid	13, 88	„ Binitrophenyl	12, 133
Nitrite of Ammonia	2, 489	„ Copper	12, 127
„ „ preparation of nitrogen from	2, 372	„ Ethyl	12, 128
„ Amyl ..	11, 63	„ Iron	12, 126
„ Baryta	3, 162	„ Lead...	12, 126
„ Cupric oxide	5, 446	„ Lime...	12, 125
„ Ethyl	8, 468	„ Manganese	12, 125
„ <i>hydraté d'Anthracénose</i> ..	16, 167	„ Methyl	12, 127
„ of Lead-oxide	5, 152	„ Potash	12, 124
„ Lime	3, 213	„ Silver	12, 127
„ Magnesia	3, 243	„ Soda ..	12, 124
„ Manganous oxide	4, 231	„ Zinc	12, 125
„ Mercurous oxide	6, 69	„ Strontia	12, 125
„ „ decomposition of urea by	7, 367	Nitrobenzoic acid	12, 122
„ Methyl	9, 505	„ anhydrous	12, 137
„ Methyl-strychnine	17, 509	Nitrobenzol, <i>see</i> Nitrobenzene	
„ Palladious oxide and Potash	6, 355	Nitrobenzoyl, chloride of	12, 137
		„ and hydrogen, nitride of	12, 152
		„ -benzoïn	12, 177
		Nitrobenzylene, sulphide	12, 134
		Nitrobichlorocarbolic acid	11, 210

Nitrobichlorophenol . . .	11, 210	Nitrogen Cyanide ? . . .	8, 147
Nitrolronaphthase, <i>see</i> Bromonitronaphthalin.		„ detection of, in organic compounds by heating with potassium . . .	7, 146
Nitrocacodylate of Silver . .	9, 332	„ elimination of, in fermentation and putrefaction . . .	7, 97
Nitrocapric Acid . . .	14, 500	„ estimation of, in organic compounds . .	7, 86
Nitrocacrylate of Ethyl . . .	13, 218	„ gas, absorption of, by alcohol . . .	8, 265
Nitrocacrylene . . .	13, 217	„ history of . . .	2, 370
Nitrocacrylic acid . . .	13, 217	„ Iodide . . .	2, 465
Nitrocarbohic acid . . .	11, 203	„ memoirs relating to . .	2, 368
Nitrochloride of Mercury . .	6, 89	„ in organic compounds . .	7, 5
Nitrochloroniccic acid . . .	11, 204	„ Oxides . . .	2, 373—402
„ ether . . .	11, 204	„ Peroxide, <i>see</i> Hypo-nitric acid	
Nitrochloronicene . . .	14, 172	„ Phosphide . . .	2, 436
Nitrochloromichmyl . . .	12, 116	„ preparation of . . .	2, 372
Nitrochohic acid ? . . .	9, 503	„ proportion of, in atmospheric air . .	2, 407
Nitrocinnamate of Ethyl . .	13, 301	„ Protoxide . . .	2, 373
Nitrocinnamene . . .	13, 18	„ Sulphide . . .	2, 442
Nitrocinnamic acid . . .	13, 300	„ solution of, in water . .	2, 373
„ anhydride . . .	13, 302	„ sources of . . .	2, 371
Nitrococussates . . .	13, 26	„ substitution of, for hyponitric acid . .	7, 75
Nitrococussic acid . . .	13, 25	„ substitution of, for oxygen . . .	7, 75
Nitrocoleine . . .	17, 40	„ various forms in which it enters into organic compounds . .	7, 144
Nitrocumarin . . .	13, 334	„ and Copper, boride of ? . . .	5, 448
Nitrocumidine . . .	13, 352	„ and Zinc, boride of ? . .	5, 36
Nitrocummic acid . . .	14, 170	Nitroglycerin 9, 501; 10, 562; 13, 583	
Nitrocumol . . .	13, 347	Nitroharminine, <i>see</i> Nitroharminine.	
Nitrocyanide of Silver . . .	8, 29	Nitroharminidine, <i>see</i> Nitroharminine.	
„ Titanium . . .	3, 488; 7, 418	Nitroharminine . . .	16, 122
Nitrocymene . . .	14, 216	Nitroharminine . . .	16, 109
Nitro-derivatives of Cellulose .	15, 166	„ Binodide . . .	16, 112
Nitrodracl . . .	12, 300	Nitrohelenin . . .	17, 524
Nitrodraeylic acid . . .	13, 23	Nitrohippurates . . .	12, 130
Nitrodulcite . . .	15, 388, 389	Nitrohippuric acid . . .	12, 129
Nitro-erythroglucin . . .	12, 387	Nitrohydralic acid . . .	10, 159
Nitro-uxanthic acid . . .	17, 537	Nitro-insosite . . .	15, 354
Nitroform . . .	12, 493	Nitro-iodide, mercuric . .	6, 81
Nitrofrangulates . . .	16, 79	Nitro-isodulcite . . .	16, 535
Nitrogen . . .	2, 370	Nitroleucic acid . . .	11, 431
„ absorption of, by non-azotised organic bodies during eremacausis . .	7, 92	Nitrolin . . .	15, 157; 17, 474
„ ammonio-sulphide of, with ammonio-chloride of sulphur . . .	2, 493	Nitrolophine . . .	12, 205
„ atomic weight of . . .	2, 373	Nitromannite . . .	15, 380
„ behaviour of, in eremacausis . .	7, 92	Nitromaric acid . . .	17, 325
„ behaviour of organic compounds containing, towards fixed alkalis . . .	7, 138	Nitromeconin . . .	14, 443
„ Binodide . . .	2, 377	Nitromesidine . . .	9, 21; 13, 353
„ Bromide . . .	2, 469		
„ Chloride . . .	2, 470		
„ Chlorophosphide . . .	2, 470		
„ Chlorosulphide . . .	2, 475		

Nitromesitylene ..	9, 20	Nitrosalicylate of Silver ..	12, 311
Nitromesitylöl ..	13, 317	" Soda ..	12, 309
Nitrometastylöl ..	13, 19	Nitrosalicylites ..	12, 305
Nitromuriatic acid ..	2, 476	Nitrosalicylic acid ..	12, 305
Nitronaphtalase, <i>see</i> Nitronaphtalin		" hydrated ..	12, 308
Nitronaphtalène, <i>see</i> Binitronaphtalin		Nitrosalicylous acid ..	12, 304
Nitronaphtalise, <i>see</i> Fernitronaphtalin		Nitrosaniline ..	11, 287
Nitronaphtaleise (Laurent's) ..	14, 91	Nitrosanaphthylin ..	14, 105
Nitronaphtalin ..	14, 82	Nitrosopelargonic acid ..	13, 371
Nitro-nuclei ..	7, 170	Nitrosophenylne ..	11, 257
" aldehydes of ..	7, 195	Nitrosotilbic acid ..	12, 173
Nitroxylöl ..	13, 137	Nitrostyrol ..	13, 19
Nitropapaverine ..	17, 260	Nitrosulphobenzene ..	11, 316
Nitroparanicene ..	14, 169	Nitrosulphonaphthalates ..	14, 55
Nitropeucedamide ..	12, 100	Nitrosulphoxyloic acid ..	13, 137
Nitropencedanin ..	12, 100	Nitrosulphuric acid ..	2, 411
Nitrophenetidine ..	12, 272	Nitrotartaric acid ..	10, 345
Nitrophenol ..	11, 203	Nitrotheine ..	10, 453
Nitrophenyl-pyrotartramide ..	11, 327	Nitrothionessal ..	12, 159
Nitrophloroglucin ..	15, 68	Nitrotoluene, or Nitrotoluöl ..	12, 300
Nitrophthalates ..	13, 28	Nitrotoluide ..	12, 300
Nitrophthalic acid ..	13, 27	Nitrotolylate of Ethyl ..	13, 25
Nitrophthalimide ..	13, 33	" Methyl ..	13, 24
Nitrophthalin ..	13, 19	Nitrotolylates, metallic ..	13, 22
Nitropianyl ..	14, 443	Nitrotolyllic acid ..	13, 22
Nitropicril ..	12, 188	Nitrotyrosine ..	13, 363
Nitropropionates ..	9, 431	Nitrous Acid ..	2, 380
Nitropropionic acid	9, 430	" action of, on urea ..	7, 367
Nitroprussic acid ..	8, 129	" formation of elaidic from oleic acid, by the action of ..	17, 76
Nitroprusside of Ammonium ..	8, 130	" presence of, in common sulphuric acid ..	2, 181
" Barium ..	8, 132	Nitrous Air or Gas ..	2, 377
" Calcium ..	8, 133	" Ether ..	8, 468
" Copper ..	8, 134	" Gas, ethereal ..	8, 217
" Iron ..	8, 133	" Oxide ..	2, 373
" Potassium ..	8, 130	" absorption of, by alcohol ..	8, 265
" Silver ..	8, 134	" absorption of, by liquid volatile oils ..	7, 167
" Sodium ..	8, 130	" maximum tension of, at different temperatures ..	1, 261; 2, 503
" " reaction of, with strychnine ..	17, 502	Nitroveratric acid ..	13, 356
" Zinc ..	8, 133	Nitroxybenzoic acid ..	12, 313
Nitroprussides, formation of ..	8, 125	Nitroxylöidin ..	15, 110
" decomposition of, by boiling with alkalis ..	13, 413	Nitrum ..	2, 68
Nitrosaccharates ..	9, 255	" <i>fixum</i> ..	3, 20
Nitrosaccharose ..	15, 295	" <i>flammans</i> ..	2, 490
Nitrosalicylamic acid ..	12, 333	" <i>sens lactis</i>	15, 217
Nitrosalicylamide	12, 333	Nitryl (NO ⁺), substitution of, for hydrogen ..	7, 122
Nitrosalicylate of Ammonia ..	12, 308	Nobili's rings ..	1, 464
" Baryta ..	12, 309	Noble Millefoil, oil of ..	14, 384
" Copper ..	12, 310	Nomenclature, crystallographic ..	1, 17
" Iron ..	12, 310		
" Lead ..	12, 309		
" Mercurous ..	12, 310		
" of Potash ..	12, 308		

Nomenclature of oxides and oxygen acids	2, 38—40	Nuclei, compounds of, with sulphur	7, 211
„ suggestions for a new chemical, particularly for organic compounds . .	7, 149	„ compounds of, with 2 atoms of hydrogen and 1 atom of oxygen	7, 191
Non-conductors, electric . .	1, 312	„ compounds of, with 2 atoms of oxygen	7, 192
Non-metallic models for electro-typing	1, 508	„ derivative or secondary	7, 169
Non-rotatory-camphor . . .	14, 350	„ primary	7, 153
Nontronite	5, 282	„ „ aldehydes of	7, 193
Nonylene	13, 367	Nucleus, combinations of a primary or secondary, with substances externally attached to it .	7, 170
Norium	3, 349	„ theory	7, 14
Nose, mucus of	18, 349	Laurent's . . .	7, 18
Noseane	3, 456	Nussierite	5, 164
Nucin	17, 20	Nutgalls, preparation of ellagic acid from . . .	16, 181
Nuclei, compounds of, with hydrogen and oxygen in equal numbers of atoms	7, 189	„ preparation of gallic acid from . . .	12, 398
„ compounds of, with 4, 6, and 8 atoms of oxygen	7, 196	Nutmeg-butter . . .	16, 395
„ compounds of, with 1 atom of hydrogen . .	7, 170	„ -camphor . . .	16, 389
„ compounds of, with 2 atoms of hydrogen . .	7, 174	„ -oil	14, 389
„ compounds of, with iodine, bromine, chlorine, and fluorine . . .	7, 212	<i>Nux vomica</i> , preparation of brucine from . . .	17, 573
		„ preparation of strychnine from	18, 480

O.

Oat-legumin	18, 437	Octylene	13, 180
Ochre	5, 282	„ Chloride	13, 588
„ uranic	4, 159	Octylic Alcohol . . .	13, 183
Octobasic Arseniate of Cupric Oxide?	5, 471	Odmyl	10, 97
„ Carbonate of Zinc-oxide	5, 14	Odorine, preparation of	11, 265, 266
„ Cupric Sulphophosphate	5, 432	Odours of organic compounds . .	7, 66
„ Nitrate of Zinc-oxide	5, 34	Enanthates	12, 466
„ Sulphate of Cupric oxide	5, 425	<i>Enanthe crocata</i> , resin of . .	17, 450
„ Sulphate of Zinc-oxide	5, 22	„ <i>fistulosa</i> , resin of . .	17, 450
Octodeca-sulphide of Arsenic . .	4, 279	Enanthic acid . . .	12, 454
Octohedral Borax	3, 88	„ acid, anhydrous (so called) . . .	12, 459
Octohydrated Alloxan	10, 178	„ ether	12, 457
Octosilicate of Alumina	3, 419	Enantho-cuminic Anhydride . .	14, 159
„ Potash	3, 372	Enanthol	12, 446
Octyl	13, 182	„ with ammonia . . .	12, 449
„ Chloride	13, 587	„ with alkaline bisulphites	12, 449
„ Hydrate	13, 183	„ Hydrate of . . .	12, 447
Octylamine	13, 219	Enanthyl Chloride . .	12, 470
Octylate of Amyl	13, 202	„ Hydride	12, 446
„ Ethyl	13, 199	„ Hydride of (so called)	12, 450
„ Methyl	13, 198	Enanthylamide . . .	12, 471
		Enanthylate of Ammonia . . .	12, 453
		„ Baryta	12, 453

Enanthylate, Benzoic .. 12, 462	Oils, drying (<i>continued</i>) .
" of Copper .. 12, 453	Oil of Spruce Fir 16, 316
" Cumyl ... 14, 159	" Sunflower . . . 16, 316
" Ethyl .. 12, 454	" Tobacco-seed . . . 16, 316
" Lead .. 12, 453	" Walnut . . . 16, 316
" Phenyl . 12, 454	" Wood-seed . . . 16, 316
" Potash . 12, 453	Oils, fatty, occurring in Nature —
" Silver ... 12, 453	Oil of Almonds . . . 17, 92
Enanthylene . . . 12, 445	" Anacardium . . . 17, 93
" Chloride . . . 12, 461	" Ants . . . 17, 93
Enanthylic acid .. 12, 451	" <i>Argemone mexicana</i> . 17, 93
" Aldehyde . . . 12, 446	" <i>Aspidium filix mas</i> . 17, 93
" Benzoate .. 12, 462	" <i>Azadirachta indica</i> . 17, 94
Oenolic acid, <i>see</i> Enolin.	" Barley-meal . . . 17, 94
Oenolin . . . 14, 478	" Beech-nuts ... 17, 94
<i>Oenothera biennis</i> , emission of	" Black mustard . 17, 553
light by the flowers of ... 1, 187	" Brazil-nuts . . . 16, 398
Oenylamine 9, 411	" <i>Butea frondosa</i> . . . 17, 94
Oerstedtite 3, 464	" <i>Calophyllum inophyllum</i> 17, 94
Ohm's formulæ relating to the	" <i>Canarium commune</i> ... 17, 94
quantity and resistance of the	" Carapa . . . 16, 388
electric current ... 1, 414	" <i>Cassuvium pomiferum</i> 17, 94
Oil of Amber . . . 14, 323	" Chinese Radish ... 17, 555
" Ants, artificial . . 10, 370	" Cocoa-nut . . . 17, 369
" Ants, fatty . . . 17, 93	" Cod-liver . . . 16, 323
" Ants, volatile . . . 14, 358	" Colza . . . 17, 554
" Caoutchouc . . . 17, 347	" Cotton-seed . . . 17, 94
Oil, chlorinated, of Cinnamic acid	" <i>Croton Tiglium</i> . . . 17, 95
" Chlorocyanic .. 9, 466	" <i>Daphne Mezereum</i> .. 17, 95
Oil of Olefant Gas 14, 390	" Dolphin ... 16, 323
" Vitriol, action of, on alco-	" Earth-almond . . . 17, 395
hol 8, 222	" Earth-nut . . . 16, 317
" Vitriol, brown ... 2, 180	" Eggs ... 17, 96
" Vitriol, common, or Eng-	" Ergot of Rye . . . 17, 96
lish 2, 180	" <i>Euphorbia Lathyrus</i> ... 17, 96
" Vitriol, preparation of 2, 180, 431	" Hazel-nuts . . . 17, 97
" Vitriol, purification of,	" Horse-chestnuts ... 17, 97
from oxides of nitrogen 2, 182	" <i>Jatropha Curcas</i> . . . 17, 140
" Vitriol, rectified, distilled	" <i>Jatropha glauca</i> and
or purified .. 2, 183	<i>Jatropha glandulifera</i> 17, 141
" Vitriol, selenium in . 2, 244	" <i>Mesua ferrea</i> (fruit) .. 17, 97
" Wine . . . 13, 175, 420	" Morels . . . 17, 97
Oils, adulterations of expensive,	" Moringa seed 16, 386
with oil of turpentine . . 8, 162	" <i>Nigella sativa</i> ... 17, 97
" Brominated 16, 316	" Olive 17, 91
" Chlorinated 16, 316	" Palm 16, 397
Oils, drying 16, 308	" <i>Paris quadrifolia</i> 17, 97
Oil of Cress-seed ... 16, 315	" Parsley 17, 97
" Deadly Nightshade seed 16, 314	" Peas (phosphoretted) . . 16, 487
" Gold-of-Pleasure seed.... 16, 315	" Pilchard . . . 16, 322
" Gourd seed . . . 16, 315	" Plum-kernels 17, 98
" Hemp 16, 312	" <i>Pongamia glabra</i> ... 17, 98
" Henbane seed, . . . 16, 314	" Porpoise 16, 323
" <i>Hesperis matronalis</i> 16, 315	" Ray-liver . . . 16, 324
" Linseed 16, 309	" <i>Ricinus communis</i> 17, 137
" <i>Madia sativa</i> 16, 315	" Sea-calf 16, 322
" Poppy. 16, 312	" Seal 16, 315
" Scotch-fir seed 16, 315	" Sesame 17, 98
" Silver Fir cones 16, 316	" Shark 16, 322

Oils, volatile (continued):

Oil of Coffee	14, 366
<i>Convolvulus Scoparius</i>	14, 363
Copaiba	14, 286
Coriander	14, 336
Cress	10, 56
Cubebs	16, 272
Cubebs, hydrated	16, 271
Culilawan	14, 364
Curcuma	14, 367
<i>Curcuma Zerumbet</i>	14, 367
Dahlia	14, 367
<i>Dryobalanops Camphora</i>	14, 355
East Indian grass	14, 368
Elder flower	14, 368
Elemi	14, 289
from the root of <i>Erysimum Albaria</i>	10, 55
of Fennel	14, 196
Fine-leaved Water-drop	14, 404
Feverfew	14, 369
Galanga	14, 369
Galbanum	17, 238
Galbanum, blue	17, 240
Gale	14, 369
Garlic	9, 372
<i>Geum urbanum</i>	14, 370
Ginger	14, 370
Gomart	14, 291
Guiana Laurel	14, 296
Hedwigia	14, 371
Hemp	14, 371
Hops	14, 291
Horse-radish	10, 54
Hyssop	14, 371
from the herb and seed of <i>Iberis amara</i>	10, 56
of Jonquil	14, 373
Juniper-berries	14, 292
Lançon balsam	14, 373
Laurel	12, 29
<i>Laurus Camphora</i>	14, 356
Lavender	14, 374
Lemon	14, 297
Lilac	14, 377
Lime	14, 304
Lime-flower	14, 378
Liquid Storax	13, 1
Mace	14, 390
Mandarin	14, 304
Marjoram	14, 379
Massey	14, 380
Masterwort	14, 381
Matico	14, 382
Mecca Balsam	14, 383
<i>Mentha viridis</i>	14, 383
<i>Mercurialis annua</i>	14, 383
Mignonette	14, 383
Millefoil	14, 384

Oils, volatile (continued)

Oil of Mugwort	14, 385
Mustard	10, 41
Mustard and Oil of Garlic, mixtures of	10, 56
Oils related to	10, 54
Myrrh	14, 413
Myrtle	14, 385
Nasturtium	14, 385
Neroli	14, 386
Neutral, of meadow-sweet	14, 382
of Nigella	14, 388; 17, 97
Noble Millefoil	14, 384
Nutmeg	14, 389
Olibanum	14, 390
Orange-flower	14, 386
Orange-peel	14, 305
Origanum	14, 391
Osmitopsis	14, 337
Para-copaiba	14, 288
<i>Parmelia parietina</i>	14, 391
Parsley	14, 307
Peach-leaf	12, 29
Pelargonium	14, 392
Pennyroyal	14, 352
Pepper	14, 307
Peru balsam	13, 283
<i>Peucedanum Oreoselin</i>	14, 308
Pimento	14, 210
Pimpinella	14, 392
Poplar-buds	14, 392
Portugal Laurel	12, 29
<i>Pulegium micranthum</i>	14, 352
Radish	10, 56
Rose	14, 393
Rosemary	14, 395
Rue	14, 489
Sage	14, 398
Saffron	14, 397
Sassafras	14, 161
Savin	14, 310
Scurvy-grass	10, 55
<i>Semen contra</i>	14, 310
Serpentaria	14, 400
Spiraea	12, 235
Spruce Fir	16, 316
Squill	14, 400
Star-anise	14, 197
Sweet Sedge	14, 400
Syringa	14, 401
<i>Tagetes glandulosa</i>	14, 401
Tansy	14, 402
Tarragon	14, 197
Tartar	3, 23
Tea	14, 402
Templin	14, 242
Thuja	16, 246
from Thymol	13, 346

Oils, volatile (*continued*)

Oil of Turpentine . . .	14, 239	Oleate of Lime . . .	17, 71
" " Bihydrochlorate of . . .	14, 268	" " Magnesia . . .	17, 72
" " decompositions of . . .	14, 245	Oleates of Mercury . . .	17, 73
" " English . . .	14, 242	Oleate of Methyl . . .	17, 82
" " French . . .	14, 242	" " Nickel . . .	17, 73
" " German . . .	14, 242	" " Quinine . . .	17, 294
" " properties of . . .	14, 242	" " Potash . . .	17, 69
" " sources of . . .	14, 240	" " Silver . . .	17, 73
" " Venetian . . .	14, 242	" " Soda . . .	17, 90
" Valerian, crude . . .	14, 314	" " Strontia . . .	17, 71
" " valerene from . . .	14, 313	" " Zinc . . .	17, 72
" Vitiveria . . .	14, 403	Oleates, metallic . . .	17, 69
" Water Horehound . . .	14, 404	Oleene . . .	11, 401
" Wild Chamomile . . .	14, 365	Olefiant gas . . .	8, 164
" Wild Thyme . . .	14, 403	" " oil of . . .	8, 376
" Winter green . . .	12, 255	" " formation of, from alcohol . . .	8, 237
" Wormseed . . .	14, 316; 15, 40	Oleic acid . . .	17, 62
" Wormwood . . .	14, 350	" " conversion of, into elaidic acid . . .	17, 76
Oils, volatile, properties of . . .	7, 162	" " formation of caprylic acid from . . .	13, 190
" volatile, resinification of, by oxidation . . .	7, 164	" " purification of coloured, from stearin works . . .	17, 64
" volatile, separation of . . .	7, 160	" " preparation of olein from . . .	17, 86
" volatile, solubility of, in water . . .	7, 166	" " preparation of palmitic acid from . . .	16, 354
" volatile, solution of, in acetone . . .	7, 169	" " solubility of, in alcohol and ether . . .	17, 73
" volatile, solution of in alcohol . . .	7, 168	Oleic and Margarinic acids, melting points of mixtures of, according to Chevreul . . .	17, 74
" volatile, solution of metallic oxides in . . .	7, 168	" " Margarinic, and Stearinic acids, Chevreul's method of preparing . . .	16, 355
" volatile, solution of organic bases in . . .	7, 169	Olein, composition of . . .	7, 237
" volatile, solution of phosphorus by . . .	7, 168	Oleins . . .	17, 84
" volatile, solutions of resins and resinous colouring matters in . . .	7, 169	Oleophosphoric acid . . .	16, 483
" volatile, solution of sulphur in . . .	7, 168	Oleosulphuric acid . . .	17, 88
" volatile, solution of, in wood-spirit . . .	7, 169	<i>Oleum animale Dippelii</i> . . .	18, 256
" volatile, sources of . . .	7, 157	" " animale <i>Dippelii</i> , alkaloids in . . .	11, 263
Okenite, or Dysklasite . . .	3, 339	" " <i>Anthos</i> . . .	14, 395
Olanine, preparation of . . .	11, 266	" " <i>baccarum Juniperi</i> . . .	14, 293
" " properties of . . .	11, 274	" " <i>Cajuputi</i> . . .	14, 335
<i>Olea europæa</i> , oil from the pulp of . . .	17, 90	" " <i>Cina</i> . . .	14, 316
Oleamide . . .	17, 101	" " <i>Cornu Cervi</i> . . .	18, 256
Oleandrine . . .	17, 596	" " <i>Jecoris Aselli</i> . . .	16, 323
Oleate of Ammonia . . .	17, 69	" " <i>Petroselinii</i> . . .	14, 307
" " Baryta . . .	17, 71, 109	" " <i>Piperis</i> . . .	14, 307
" " Chromium . . .	17, 72	" " <i>Sabina</i> . . .	14, 310
" " Cobalt . . .	17, 72	" " <i>Seminum Coccognidii</i> . . .	17, 95
" " Copper . . .	17, 73	" " <i>Tanacetii</i> . . .	14, 402
" " Ethyl . . .	17, 83	" " <i>Tartari per deliquium</i> . . .	3, 22
" " Iron . . .	17, 72	" " <i>Vini</i> . . .	13, 175
" " Lead . . .	17, 72	Olibanum . . .	17, 427
		" " oil . . .	14, 390

- Oligoclase 3, 444
 Olive, mannite in the . . . 15, 540
 " oil 17, 90
 " oil, decomposition of, by
 oil of vitriol . . . 17, 87
 " oil, solidification of, by
 the action of hyponitric
 acid on 17, 75
 Olivenite 5, 472
 Olive-coloured compound of so-
 dium 3, 116
 Olvul 16, 197
 Olvin, Mulder's 15, 434
 Olvine 3, 395
 Olvirutin 16, 199
 Oncosine 3, 448
 Onocerin 15, 40
 " action of chlorine on . . 15, 42
 Ononetin 17, 564
 Ononide 17, 61
 Ononin 15, 346; 17, 567
 Ononis-glycyrrhizin 17, 61
 Onospin 15, 346; 17, 565
 Opacity 1, 164
 " of compounds 1, 94
 Opal 3, 352
 Opaline allophane 3, 411
 Operment 4, 273
 Ophite, &c. 3, 395
 Opianmone 14, 435
 Opianate of Ammonia 14, 429
 " Baryta 14, 429
 " Ethyl 14, 433
 " Lead 14, 429
 " Silver 14, 429
 Opianic acid 14, 427
 Opianine 16, 146
 Opian sulphurous acid 14, 426
 Opianyl 16, 422
 Opianyl, stearate of 17, 124
 Opium, estimation of Morphine in 16, 423
 " existence of Narcotine in 16, 136
 " methods of obtaining the
 principal constituents of 16, 419
 " percentage of Morphine
 in various sorts of . . . 16, 415
 " preparation of Codeine
 from 17, 28
 " preparation of Meconic
 acid from 12, 422
 " preparation of Morphine
 from 16, 416
 " preparation of Narceine
 from 17, 597
 " preparation of Papaverine
 from 17, 257
 Opopanax 17, 427
 Opposed galvanic batteries, effects
 of 1, 484
- Optical rotatory power of organic
 liquids 7, 61
 Orange-flower, oil of 14, 386
 " -peel, oil of 14, 305
 Oreein 12, 358
 Orchil, syn. with Archil . . . 12, 361
 Oream 12, 353
 " conjugated compounds of 12, 371
 " hydrated 12, 355
 " Lead-compound of . . . 12, 356
 " Stearate of 17, 124
 " with Sulphate of Quinine 17, 292
 Oreoselone 12, 96
 " Angelate of 12, 98
 Organic Acids, *see* Acids, Organic.
 " Alkalis or Bases, *see*
 Alkaloids.
 " atom, compound relative
 position of the elemen-
 tary atoms in 7, 30
 " bases, solutions of, in
 volatile oils 7, 169
 " bases, volatile, natural
 occurrence of 13, 387
 " bodies, spontaneous in-
 flammation of 7, 85
 " chemistry, its subdivi-
 sions. 7, 1
 " compounds, action of
 potash and soda on . . . 13, 385
 " compounds, alteration of,
 by fermentation 7, 97
 " compounds, arrangement
 of, in series 7, 23
 " compounds, ash of 7, 85
 " compounds, boiling
 points of 7, 55
 " compounds, chemistry
 of 7, 1
 " compounds, classification
 of 7, 147
 " compounds, colours of . . 7, 64
 " compounds, components
 of 7, 4
 " compounds containing
 nitrogen or chlorine,
 peculiar behaviour of,
 towards fixed alkalis . . . 7, 138
 " compounds, decomposi-
 tion of, by the alkali-
 metals 7, 145
 " compounds, decomposi-
 tion of, by ammonia . . . 7, 140
 " compounds, decomposi-
 tion of, by the basic
 oxides of the heavy
 metals 7, 131
 " compounds, decomposi-
 tion of, by bromine . . . 7, 122

Organic compounds, decomposition of, by chloric acid	7, 125	tion of, by vanadic acid	7, 127
„ compounds, decomposition of, by chloric oxide gas	7, 125	Organic compounds, decomposition of, by water	7, 146
„ compounds, decomposition of, by chlorine	7, 119	„ compounds, elementary or ultimate analysis of	7, 86
„ compounds, decomposition of, by chromic acid	7, 126	„ compounds, elements occurring in	7, 5
„ compounds, decomposition of, by combustion	7, 84	„ compounds, even numbers of elementary atoms in	7, 6
„ compounds, decomposition of, by dry or destructive distillation	7, 77	„ compounds, formation of, from inorganic materials	7, 38; 12, 477
„ compounds, decomposition of, by fixed alkalis	7, 133	„ compounds, formation of, from one another	7, 42
„ compounds, decomposition of, by hypochlorous acid	7, 125	„ compounds, formulæ of	7, 8
„ compounds, decomposition of, by iodic acid	7, 125	„ compounds, isomerism of	7, 66
„ compounds, decomposition of, by iodine	7, 122	„ compounds, Laurent's classification of	7, 23
„ compounds, decomposition of, by metallic chlorides	7, 130	„ compounds, metamorphism of	7, 69
„ compounds, decomposition of, by nitric acid	7, 122	„ compounds, mode of combination of the elements in	7, 7
„ compounds, decomposition of, by passing their vapours through a red-hot tube	7, 83	„ compounds, physiological relations of	7, 66
„ compounds, decomposition of, by permanganate of potash	7, 127	„ compounds, primary or elementary	7, 5
„ compounds, decomposition of, by pentachloride of phosphorus	7, 130	„ compounds, primary, literature relating to	7, 2
„ compounds, decomposition of, by peroxides	7, 130	„ compounds, polymerism of	7, 67
„ compounds, decomposition of, by phosphoric acid	7, 129	„ compounds, properties of	7, 45
„ compounds, decomposition of, by sulphide of potassium	7, 145	„ compounds, rapid combustion of, in contact with substances containing oxygen loosely combined	7, 86
„ compounds, decomposition of, by sulphuric acid	7, 127	„ compounds, regarded as compounds of carbon	7, 2
„ compounds, decompositions and transformations of	7, 70	„ compounds, relations of, to light	7, 64
„ compounds, decompositions and transformations of, by hydrosulphuric acid	7, 145	„ compounds, specific gravity of	7, 46
„ compounds, decomposition of, by vanadic acid	7, 127	„ compounds, on the gaseous state	7, 52
		„ compounds, spontaneous decomposition of	7, 90
		„ compounds, state of aggregation of	7, 45
		„ compounds, substitution or metalepsy in	7, 71
		„ compounds, suggestions for a new nomenclature of	7, 149

Organic compounds, vapour-density of	7, 52	Osmic oxide, hydrated ..	6, 407
„ germs, action of, in promoting fermentation	7, 110	„ salts	6, 407
„ and inorganic bodies, points of distinction between	7, 1	„ sulphate	6, 412
„ kingdom, proximate principles of	7, 1	Osmide of Gold ..	6, 423
„ liquids, circular polarisation in	7, 64	„ Iridium	6, 393, 423
„ liquids, refracting power of	7, 64	Osmioso-potassic sulphate	6, 417
„ matter in the air	2, 413	Osmious Bisulphite with chloride of potassium	6, 419
„ substances, formation of marsh-gas by the putrefaction and dry distillation of	7, 251	„ Nitrate	6, 415
„ substances, preservation of	7, 112	„ Oxide	6, 406
„ substances in the act of spontaneous decomposition, effect of, in inducing the combination of hydrogen and oxygen	2, 57	„ „ hydrated	6, 406
Organised bodies, living phosphorescence of	1, 181	„ Phosphate	6, 410
Organum-oil	14, 391	„ Salts	6, 406
Orlean, <i>see</i> Annatto.		„ Sulphate	6, 411
Oro Pudre	6, 358	Osmitopsis, oil of	14, 337
Orpiment	4, 273	Osmum-amalgam	6, 422
Orseille, or Archil, preparation of	12, 361	„ Ammono-sesquioxide	6, 415
Orsellate of Baryta	12, 372	„ Bichloride	6, 412
„ Ethyl	12, 373	„ Bioxide	6, 410
„ Methyl	12, 372	„ Bisulphide	6, 406
Orsellic acid	12, 371	„ Blue oxide	6, 406
„ preparation of orcin from	12, 353	„ Chlorides	6, 412
„ ether	12, 372	„ Five-halves sulphide	6, 410
Orthite	3, 424	„ Oxides	6, 406
Orthoclase	3, 441	„ Phosphide	6, 410
Osann's phosphori	1, 194	„ Protoxide of, with potash	6, 417
Osmazome	18, 271	„ preparation of	6, 255, 264, 270, 405
Osmiamates	6, 415	„ Protochloride	6, 412
Osmiamic acid	6, 413	„ Protoxide	6, 406
Osmiate of Ammonia	6, 415	„ Salts, solubility of, in alcohol	6, 272
„ Lead	6, 421	„ Sesquioxide ?	6, 406
„ Lime	6, 421	„ „ of with potash	6, 417
„ Mercury	6, 422	„ spongy, effect of, in inducing the combination of hydrogen and oxygen	2, 52
„ Potash	6, 417	„ Sulphate of blue oxide of	6, 411
„ Tin ?	6, 421	„ Sulphides	6, 410
Osmiates	6, 410	„ Terechloride ?	6, 413
Osmic acid	6, 407	„ Teroxide	6, 407
„ compounds of, with other acids	6, 410	„ „ with potash	6, 417
„ hydrochlorate of	6, 413	„ Tersulphide	6, 411
„ oxide	6, 407	„ Tetrasulphide	6, 411
		„ and Mercury, chloride of	6, 422
		„ and Potassium, chlorides of	6, 418
		„ -iridium, treatment and analysis of	6, 262, 265, 268
		Ossein	18, 352
		Othyl, chloride	9, 195
		„ sulphide	9, 356
		„ thiacetate	9, 356
		„ -urea	9, 292

Otoba-fat	...	16, 395	Oxalate, Baryto-ferric.	..	9, 160
Otobite	.	16, 395	" of Benzidine	..	11, 341
Ottrelhte	...	5, 287	" Berberine	..	17, 195
Ovariolutein	..	18, 413	" Bismuthamine	..	13, 306
Over-poled copper	.	5, 399	" Diamidobenzoic acid	12, 150	
Oxacids	..	2, 18, 38	" Bismuth	9, 150; 13, 524	
Oxalates	9, 120; 10, 533; 13, 515		" Bismuth and Ammonium	..	13, 524
" formation of, by fusing starch, sawdust, bran, wool, &c., with a mixture of potash and soda	..	13, 385	Bismuth and Potassium	..	13, 524
Oxalate of Acetonine	..	13, 378	Bromaniline	..	11, 279
" Acetylum	..	10, 540	Brucine	..	17, 583
" Allyl	..	13, 545	Cadmammonium	..	13, 525
" Alumina	..	9, 135	Cadmium	9, 152; 13, 525	
" " and Baryta	9, 135		Cadmium and Ammonium	..	13, 525
" " and Potash	9, 135		Cadmium and Potassium	..	13, 526
" " and Soda	9, 135		Cadmium and Sodium	13, 526	
" " and Strontia	9, 135		Calcio-chromic	...	9, 142
" Amidontraniline	..	9, 296	Calcio-ferric	..	9, 160
" Ammonargentammonium	..	13, 529	of Casen	...	18, 314
Oxalates of Ammonia	..	9, 122	Cerium	..	9, 134
Oxalate, Ammonio-antimonie	9, 148; 13, 523		Chinoline	..	13, 251
" Ammonio-cadmie	..	10, 533	Chloraniline	..	11, 285
" Ammonio-chloroplatinous	..	9, 170	Chloromethylc	..	9, 175
" Ammonio-chromic	..	9, 138	of Cinchonidine	17, 227, 613	
" Ammonio-cobaltic	9, 162		Cinchonine	..	17, 216
" Ammonio-cobaltoso-cobaltic	..	9, 163	Cobaltoso-cobaltic	..	9, 161
" Ammonio-cobaltous	..	9, 162	Cobaltous	9, 160	
" Ammonio-cupric	9, 165; 10, 535		Cobaltous, with Ammonia	..	9, 161
" Ammonio-ferric	...	9, 158	of Cocaine	..	16, 303
" Ammonio-magnesian	..	13, 519	Codeine	17, 36	
" Ammonio-manganous	9, 147; 13, 521		Cumidine	..	13, 351
" Ammonio-mercuric?	9, 168; 13, 528		Cupric	..	9, 164
" Ammonio-mercurous?	9, 168		Cupric, with Ammonia	9, 165	
" Ammonio-mucolic	9, 164		Cuprous	...	9, 164
" Ammonio-oxyplatinous	9, 170		of Cyanethine	...	13, 237
" Ammonio-palladious	9, 171		Cyaniline	..	11, 362
" Ammonio-stannous	9, 153		Cymidine	..	14, 219
" Ammonio-uranic	9, 145		Didymium	..	9, 134
" Ammonio-uranous	9, 144		Ethyl	9, 178	
" Amylic	11, 72		Ethyl, formation of		
" of Antimony	9, 148; 13, 523		Glucose from	..	15, 310
" Anthranilic acid	12, 328		Ethylamine	..	9, 172
" Argento-chromic	..	9, 169	Ethylene	..	13, 432
" of Arsenious acid?	..	9, 147	Ferric	..	9, 157
" Arsenious acid and Potash	...	13, 521	Ferrous	9, 156; 13, 526	
" Asparagine	...	10, 249	Fucusine	..	10, 383
" Baryta	9, 128; 13, 516		of Furfurine	..	10, 381
" Baryto-chromic	...	9, 142	Glucina	..	9, 136
			Glucina and Ammonia	..	13, 520
			Guanine	...	10, 483
			Harmaline	...	16, 119
			Harmine	..	16, 107
			Hydrargethyl	..	10, 532

- Oxalate of Lanthanum... 9, 134
 Oxalates of Lead ... 9, 154
 Oxalate of Lime 9, 130, 13, 517
 " Lime with Chloride
 of Calcium ... 9, 132
 " Lithia 9, 127, 13, 515
 " Magnesia 9, 132; 13, 518
 " Magnesia and Ammonia ... 9, 132
 " Magnesio-chromic ... 9, 143
 " Manganic ... 9, 146
 " Manganous ... 9, 146
 " of Melaniline ... 11, 355
 " Mercuraline ... 18, 201
 " Mercuric ... 9, 168
 " Mercurous ... 9, 167
 " of Methyl ... 9, 174
 " Methylamine ... 9, 172
 " Methylstrychnine ... 17, 510
 " Methyluramine ... 9, 358
 Oxalates of Molybdenum ... 9, 136
 Oxalate of Naphthylamine ... 14, 100
 " Nickel ... 9, 163
 " Nickel with Ammonia ... 9, 163
 " Nickel and Potassium 9, 164, 10, 534
 " Nicotine ... 14, 231
 " Nitroformaline ... 16, 125
 " Nitrocodeine ... 17, 41
 " Oxyacanthine ... 17, 199
 " Palladium ... 9, 171
 " Papaverine ... 18, 203
 " Perchlorovinic ... 9, 242
 " of Phloramine ... 15, 70
 " Picoline ... 11, 271
 " Platonic ... 9, 170
 " Platinous ... 11, 170
 " Plumbo-chromic ... 9, 156
 " of Potash ... 9, 125
 " Potash and Ammonia? ... 9, 126
 " Potassio-antimonic 9, 149; 13, 523
 " Potassio-cerous ... 9, 134
 " Potassio-chromic ... 9, 140
 " Potassio-cobaltoso-cobaltic ... 9, 163
 " Potassio-cobaltous ... 10, 534
 " " basic ... 9, 163
 " Potassio-cupric 9, 166; 10, 535
 " Potassio-ferric ... 9, 158
 " Potassio-ferrous ... 13, 527
 " Potassio-manganic 9, 147; 13, 521
 " Potassio-manganous 9, 147; 13, 522
 " Potassio-mercuric? ... 9, 169
 Oxalate, Potassio-plumbic ... 9, 156
 " Potassio-silver ... 9, 169
 " Potassio-stannous 9, 154; 10, 534
 " Potassio-uranic 9, 145
 " Potassio-uranous ... 9, 145
 " of Quinidine ... 17, 301
 " Quinine 17, 289, 616
 " Semnaphthylamine 14, 109
 " Silver 9, 169, 13, 528
 Oxalates of Soda ... 9, 127
 Oxalate of Soda, acid ... 13, 515
 " Soda and Potash? ... 9, 127
 " Sodio-antimonic 10, 533; 13, 523
 " Sodio-chromic ... 9, 141
 " Sodio-cupric ... 9, 166
 " Sodio-ferric ... 9, 159
 " Sodio-platinous ... 13, 529
 " Sodio-stannic ... 9, 154
 " of Solanine ... 18, 97
 " Stannic ... 9, 153
 " Stannous 9, 152; 10, 534; 13, 526
 " Submethylenehydrium 13, 503
 Oxalates of Strontia 9, 129; 13, 516
 Oxalate, Strontio-chromic 9, 142
 " Strontio-ferric ... 9, 160
 " of Strychnine ... 17, 502
 " Tantalum ... 9, 136
 " Telluric ... 9, 150
 " of Tetravinylium ... 13, 490
 Oxalates of Thebaine ... 13, 209
 Oxalate of Thebenine ... 13, 211
 " Thorina ... 9, 135
 " Thorina and Potash 9, 136
 " Titanium ... 9, 136
 " Toluidine ... 12, 336
 " Uranic ... 9, 143
 " Uranous ... 9, 143
 " of Urea ... 9, 171
 Oxalates of Vanadium ... 9, 137
 Oxalate, Vinomethylic ... 9, 182
 " of Yttria ... 9, 134
 " Yttria and Potash 9, 135
 " Zinc ... 9, 151
 " Zinco-ammonic ... 9, 151
 " Zinco-potassic ... 9, 151
 " of Zirconia ... 9, 136
 Oxalic acid ... 9, 111
 " action of, on salts, 13, 514
 " aqueous ... 9, 120
 " aqueous, with Prussian blue ... 9, 172
 " combinations of ... 9, 119
 " constitution of ... 7, 36
 " copulated acids produced by ... 7, 227
 " decompositions ... 9, 115

Oxalic acid, formation of		Oxide of Butyl . . .	10, 69
" hydrated . . .	9, 112, 13, 514	" Cacodyl . . .	9, 320, 13, 495
" preparation of for-	9, 119	" Cadmium . . .	5, 54
mic acid from . . .	7, 273	Oxides of Calcium . . .	3, 181
" properties of . . .	9, 114	Oxide, Carbonic . . .	2, 87
" ether . . .	9, 178	Oxides of Cerium . . .	3, 257
Oxalonnates of Lead . . .	9, 155	Oxide of Cetyl . . .	16, 342
Oxalovinic acid . . .	11, 183	" Chloric . . .	2, 309
Oxaluranilide . . .	9, 315	Oxides of Chlorine . . .	2, 294
Oxalurate of Cinchonine . . .	17, 216	Oxide, Chlorocarbonic . . .	2, 326
Oxaluric acid . . .	9, 440	" Chromic . . .	4, 108
Oxamates . . .	9, 260, 13, 536	" Chromoso-chromic . . .	4, 107
Oxamate of Allyl . . .	13, 546	Oxides, classification of . . .	2, 38
Oxamethane . . .	9, 258	" of Cobalt . . .	5, 322
Oxamethylane . . .	9, 177	Oxide, Cobaltic . . .	5, 326
Oxamic acid . . .	13, 535	" Cobaltoso-cobaltic . . .	5, 326
Oxamide . . .	9, 262; 13, 536	Oxides of Copper . . .	5, 402
Oxamylane . . .	11, 115	Oxide, Cupric . . .	5, 406
Oxanaphthalide . . .	14, 128	" Cuprous . . .	5, 403
Oxanilamide . . .	11, 312	" of Didymium . . .	3, 280
Oxanilates . . .	11, 311	<i>Oxide d'Essène</i> . . .	12, 85
Oxanilic acid . . .	11, 310	Oxide of Ethyl . . .	8, 171
Oxanilide . . .	11, 364	" Ethyl, hydrated . . .	8, 194
Oxanthracene . . .	16, 169	" Ethylene . . .	13, 424
Oxatolyate of Ethyl . . .	17, 154	" Ethylene-stannethyl . . .	9, 100
Oxatolyates, metallic . . .	17, 154	" Ferric . . .	5, 194
Oxatolylic acid . . .	17, 153	" Ferroso-ferric . . .	5, 190
Ox-bile, preparation of Choles-		" Ferrous . . .	5, 187
tern from . . .	18, 111	Oxides of Gold . . .	6, 205
" preparation of Glyco-		" heavy metallic, electro-	
cholic acid from . . .	18, 57	lysis of . . .	1, 459
" preparation of Tauro-		Oxide of Iodine ? . . .	2, 251
cholic acid from . . .	18, 65	" Iridic . . .	6, 373
Ox-fat . . .	16, 397	" Iridious . . .	6, 371
Oxhaverite . . .	3, 393	Oxides of Iridium . . .	6, 370
Ox-horn, composition of . . .	18, 348	" Iron . . .	5, 184
Oxidation of organic compounds		Oxide of Isoprene . . .	14, 331
by nitric acid . . .	7, 122	" Lanthanum . . .	3, 275
" by platinum-black . . .	6, 280	" Lead . . .	5, 107
Oxide, Acephtinous . . .	9, 37	" Magnesium . . .	3, 222
" of Acetostannethyl . . .	9, 101	" Manganic . . .	4, 202
" Allyl . . .	9, 363; 13, 539	" Manganoso-manganic . . .	4, 200
" Aluminum . . .	3, 301	" Manganous . . .	4, 197
" Amyl . . .	11, 7	" Mercuric . . .	6, 8
Oxides of Antimony . . .	4, 323	" Mercurous . . .	6, 5
Oxide of Arsenethylum . . .	9, 77	Oxides of Mercury . . .	6, 5
Oxides of Arsenic . . .	4, 252	Oxide of Mesityl . . .	9, 25
Oxide of Arsenetriethyl . . .	9, 74	Oxides, metallic, action of hydr-	
" Auric . . .	6, 207	acids on . . .	2, 80
" Aurous . . .	6, 205	" " compounds of	
Oxides, basic, of the heavy		alizarin with . . .	14, 139
metals, decomposition of or-		" " compounds of	
ganic compounds by the . . .	7, 131	urea with . . .	7, 375
Oxide of Bichlorobenzylene . . .	12, 116	" " decomposition	
" Biplumbic Triethyl . . .	13, 512	of, by light . . .	2, 172
" Bisethyl . . .	9, 89	Oxide of Methstannamyl . . .	11, 132
Oxides of Bismuth . . .	4, 428	" Methstannbiamyl . . .	11, 133
Oxide of Bistannamyl . . .	11, 131	" Methyl . . .	7, 256; 10, 489
		" " hydrated . . .	7, 258

Oxide of Methylene-stannethyl	9, 99	Oxidising properties of oxygen-	
„ Methyl-plumbethyl	9, 107	ated oil of turpentine	14, 508
„ Methyl-stannethyl	9, 102	„ rays of light	1, 150
„ Molybdic	4, 51	Oxindicanin	16, 2
„ Molybdous	4, 49	Oxindicasin	16, 2
„ „ sulphates of	4, 62	Oxide	1, 431
Oxides of Nickel	5, 362	Oxolum	18, 254
Oxide, Nitric	2, 377	Oxurates	10, 170
„ „ with Bichloride of		Oxuric acid	10, 169
Platinum ²	6, 295	Oxyacanthine	17, 197
Oxides of Nitrogen	2, 373—402	Oxyamide of Mercury	6, 78
Oxide, Nitrous	2, 373	Oxybenzoic acid	12, 273
Oxides of noble metals, reduction		Oxybromides	2, 9, 287
of, by formic acid	7, 275	Oxybromide of Cacodyl	9, 341
„ Osmium	6, 406	„ Cupric	5, 436
Oxide, Palladic	6, 345	„ Ferric	5, 251
„ Palladious	6, 342	„ of Lead	5, 144
Oxide, Paracacodylic	9, 242	„ Mercuric	6, 43
Oxide of Phosphorus	2, 110	„ of Tellurethyl	8, 385
„ Picramyl	12, 18	„ Tungsten	4, 34
Oxides of Platinum	6, 281	Oxychlorides	2, 9, 355
„ Potassium	3, 9	Oxychloride of Antimony	4, 367
Oxide of Protein	18, 263	„ Bismuth	4, 439
Oxides, reduction of, by peroxide		„ Cacodyl	9, 345
of hydrogen	2, 77	„ Caesium	3, 271
„ of Rhodium	6, 359	„ Chromium	4, 134
„ Ruthenium	6, 396	„ Cupric	5, 440
Oxide, Selenic	2, 236	„ of Ethylidene	13, 453
„ of Silicium	3, 352	„ Ferric	5, 255
Oxides of Silver	6, 138	„ Iridic	6, 381
Oxide of Silver and Lead	6, 195	„ of Lead	5, 146
Oxides of Sodium	3, 74	„ Mercuric	6, 59
Oxide of Stannethyl	9, 96	„ of Phosphorus	2, 380
„ Stannic	5, 71	„ Palladious	6, 349
„ Stannous	5, 68	„ of Platinum, am-	
„ „ bihydrosulphate		monio-nitrate	6, 311
of	5, 80	Platinum, am-	
„ „ hydrosulphate of	5, 78	monio - phos-	
„ of Stibethyl	9, 81, 10, 524	phate	6, 309, 318
„ Stibmethylethylum	13, 500	Platinum, am-	
„ Stibtriamyl	11, 127	monio - sul-	
„ Tantalum	4, 23	phate	6, 310, 318
„ Telluramyl	11, 45	Selenethyl	8, 357
„ Telluric	4, 397	Stannous, hydrated	5, 87
„ of Telluromethyl	10, 493	of Tellurethyl	8, 387
„ Thorium	3, 330	Telluromethyl	10, 494
„ Tin	5, 68	Thorium	3, 335
„ Titanic	3, 471	Zinc	5, 31
„ Titanous	3, 469	Zirconium, hy-	
„ of Triethylphosphine	12, 523	drated	3, 346
„ Tungstic	4, 25	Oxychlorouric acid	11, 470
„ Tungstous	4, 25	Oxychloronaphthalenose?	14, 68
Oxides of Uranium	4, 159	Oxychloronaphthalose, see Chlor-	
Oxide, Vanadic, borate of	4, 90	ide of Chloroxynaphthalin	14, 68
Oxides of Vanadium	4, 82	Oxycinchonine	17, 231
Oxide of Yttrium	3, 283	Oxycuminic acid of Silver	14, 152
Xanthic	10, 454	Oxycuminic acid	14, 151
of Zinc	5, 5	Oxycyanide of Lead	7, 427
Zirconium	3, 338	„ Mercury	8, 16

Oxyde de Brométhiise .	9, 188	Oxygen, solubility of, in alcohol	8, 258
Oxyfluoride of Cobalt	5, 338	" sources of . . .	2, 20
" Feric .	5, 257	" substitution of, for hy-	
" of Lead .	5, 151	drogen	7, 73
" Nickel	5, 379	" substitution of, for sul-	
" Titanium	3, 482	phur . . .	7, 76
Oxygen .	2, 19	" -acids . . .	2, 6
" absorption of, by alkaline		" -acids, aqueous, electro-	
solutions of pyrogallie		lysis of	1, 451
acid . . .	11, 399	" -acids, compound ethers	
" absorption of, by organic		formed by . . .	7, 215
compounds under the		Oxygenated water . . .	2, 73
influence of alkalis	7, 133	Oxygen-bases . . .	2, 6
" absorption of, by melted		" -circuit, Becquerel's ..	1, 335
silver	6, 138	" -nuclei . . .	7, 169
" combination of, with		" nuclei, Aldehydes of ..	7, 193
other bodies	2, 24	Oxygenoids . . .	2, 18
" combination of, with		Oxygen-salts, acid and basic	2, 7
combustible gases, ex-		" -salts of the alkalis	
cited by contact with		and earths, electrolysis	
platinum and certain		of	1, 459
other metals . . .	2, 25	" -salts, anhydrous com-	
" combustion of, in an at-		pounds of, with Am-	
mosphere of hydrogen	2, 32	moma	2, 427
" compounds of ..	2, 38	" -salts, compounds of,	
" compounds of, with Nu-		with Urea . . .	7, 373
clei . . .	7, 192, 196	" -salts of heavy metallic	
" development of heat and		oxides, electrolysis of	1, 463
light in the combina-		" -salts, normal . . .	2, 6
tion of, with other		Oxyhæmoglobin	18, 588
bodies . . .	2, 27	Oxy-hydrogen blowpipe	2, 59
" evolution of, from per-		Oxygasurine . . .	17, 592
oxide of hydrogen	2, 76	Oxyiodides . . .	2, 271
" history of	2, 20	Oxy-iodide of Bismuth	4, 437
" and Hydrogen, combi-		" Cacodyl . . .	9, 430
nation of, see Hydro-		Oxy-iodide of Cobalt . .	5, 335
gen.		" Lead . . .	5, 141
" liberation of, from car-		" Mercury . . .	6, 40
bonic acid by the green		" Stibethyl . . .	13, 449
parts of plants, under		" Tellurethyl . . .	8, 385
the influence of solar		" Zinc . . .	5, 28
light . . .	1, 172	Oxymuriatic acid . . .	2, 289
" magnetic properties of	1, 517	" acid, liquid . . .	2, 293
" memoirs relating to	2, 19	Oxynaphthylamine ? . .	14, 101
" in organic compounds	7, 5	Oxynaphthalidine, see Oxynaph-	
" physical properties of .	2, 24	thylamine	
" preparation of	2, 20	Oxynitron . . .	2, 16
" proportion of, in atmos-		Oxyphemic acid . . .	11, 379
pheric air . . .	2, 407	Oxypicric acid . . .	11, 228
" quantities of heat evolved		Oxypinitannic acid . . .	15, 487
in the combination of		Oxyporphyrine acid . . .	17, 184
different substances		Oxyprotein . . .	18, 263
with . . .	1, 292	Oxyquinine . . .	17, 307
" replacement of, by Ami-		Oxyrubian . . .	16, 47, 61
dogon . . .	7, 75	Oxysalicylic acid . . .	16, 239
" replacement of, by Nitro-		Oxyselenide of Antimony	4, 362
gen . . .	7, 75	Oxysulphides . . .	2, 9, 231
" replacement of, by Sul-		Oxysulphide of Antimony	4, 359
phur . . .	7, 76	" Cerium . . .	3, 267

Oxysulphide of Cobalt . . .	5, 332	Oxyanthate of Lead . . .	8, 463
" Manganese . . .	4, 219	" Potassium . . .	8, 461
" Zinc . . .	5, 20	" Silver . . .	8, 465
Oxysulphion . . .	2, 16	" Zinc . . .	8, 463
Oxysulphocarbonate Ethylic . . .	8, 439	Oxyxanthic acid . . .	8, 461
" Methamylie . . .	11, 62	Oysters, green colouring matter of . . .	18, 422
" Vinamylie . . .	11, 62	Oyster-shells, residue left on digesting, in dilute hydrochloric acid . . .	18, 372
" Vinomethylie . . .	8, 444	Ozocerite . . .	18, 169
Oxysulphocyanide of Bismuth . . .	8, 56	Ozone . . .	1, 449
" Ethyl . . .	8, 490	Ozonized Ethylene-air . . .	8, 182
" Lead . . .	8, 55	" Oil of Turpentine . . .	14, 256
" Mercury . . .	8, 95		
Oxystrychnine . . .	17, 535		
Oxythymol . . .	15, 37		
Oxyanthate of Copper . . .	8, 464		

P.

Packfong . . .	5, 497	Palladium Bioxide . . .	6, 345
<i>Payanus latro</i> , oil obtained from . . .	18, 322	" Bromide . . .	6, 348
Palcoumn . . .	18, 237	" Carbide . . .	6, 346
Palladic Chloride . . .	6, 349	Palladite of Lime . . .	6, 355
" Oxide . . .	6, 345	Palladium, Phosphide . . .	6, 348
Palladio-ammonic Nitrate . . .	6, 353	" preparation of . . .	6, 255, 264, 340
" -cyanide of Potassium . . .	8, 59	" properties of . . .	6, 341
" -potassic Mellite . . .	10, 13	" Protocyanide . . .	8, 59
" -potassic Nitrite . . .	6, 355	" Protochloride . . .	6, 349
" -potassic Sulphate . . .	6, 353	" Protosulphocyanide . . .	8, 97
" -sodic Nitrate . . .	6, 355	" reactions of . . . of 6, 344, 346	
Palladious Arseniate . . .	6, 356	" Protoxide . . .	6, 342
" Bromate . . .	6, 348	" Salts, solubility of, in alcohol . . .	8, 272
" Citrate . . .	11, 461	" Selenide . . .	6, 347
" Hydrate . . .	6, 343	" spongy, effect of, in inducing the combination of hydrogen and oxygen . . .	2, 52
" Hydrochlorate, basic . . .	6, 349	" Sulphide . . .	6, 346
" Chloride . . .	6, 349	" and Iron, carbide of . . .	6, 357
" Iodide . . .	6, 347	" and Sodium, mellite of . . .	10, 13
" Mellite . . .	10, 13	Palmic acid . . .	18, 366
" Nitrate . . .	6, 350	Palmutamide . . .	18, 382
" Iodate . . .	6, 348	Palmitate of Ammonia . . .	18, 360
" Oxalate . . .	9, 171	" Amyl . . .	18, 380
" Oxide . . .	6, 342	" Baryta . . .	18, 361
" Oxychloride . . .	6, 349	" Copper . . .	18, 363
" Phosphate . . .	6, 346	" Ethyl . . .	18, 375
" Salts . . .	6, 343	" Lead . . .	18, 362
" Sulphate . . .	6, 346	" Magnesia . . .	18, 362
" Tartrate . . .	10, 326	" Melissyl . . .	18, 153
Palladium . . .	6, 340	" Methyl . . .	16, 373
" Alloys . . .	6, 355	" Mercury . . .	16, 363
" Amalgam . . .	6, 357	" Potash . . .	16, 360
" Ammonio - protochloride . . .	6, 351	" Silver . . .	16, 363
" Ammonio - protiodide . . .	6, 350	" Soda . . .	16, 361
" Antimonite . . .	6, 356		
" Arsenide . . .	6, 356		
" Benzoate . . .	12, 45		
" Bichloride . . .	6, 349		
" Bicyanide . . .	8, 59		

Palmitic Acid, composition and properties of	16, 356	<i>Panacea mercurialis</i> , vel <i>cales-</i>	
„ decompositions of	16, 357	<i>tis</i> , vel <i>Mercurii</i> ...	6, 45
„ decomposition of, by chlorine	16, 357	Panacene	15, 64
„ decomposition of, by combustion	16, 357	Panaquilone	15, 64
„ decomposition of, by glycerin	16, 358	Panoche-sugar	15, 241
„ decomposition of, by heat	16, 357	Panum's Acid-albumin	18, 261
„ decomposition of, by lime	16, 358	<i>Papaver somniferum</i> , oil from the seeds of	16, 312
„ decomposition of, mannite	16, 358	Papaveric acid	16, 528
„ decomposition of, by methylic, ethylic, and amylic alcohols	16, 358	Papaverine	17, 257, 18, 202
„ decomposition of, by nitric acid	16, 357	Papaverosine	18, 204
„ decomposition of, by peroxide of lead	16, 357	Paper, action of strong nitric acid on	15, 135
„ decomposition of, by phosphoric anhydride	16, 357	„ impregnated with bromide of silver, effect of light on	1, 176
„ literature and history of	16, 350	„ impregnated with chloride of silver, effect of light on	1, 173
„ preparation of	16, 352	„ impregnated with iodide of silver, effect of light on	1, 176
„ sources of	16, 352	„ -parchment	15, 138
„ Aldehyde	16, 349	Papin's Digester	1, 278
„ Ether	16, 375	Para oil	16, 398
„ Lauric, and Myristic acids, melting and solidifying points of, mixtures of	16, 364	Para-æsculetin	18, 44
„ and Margaric acids, melting points of mixtures of	16, 474	Parabananate of Urea	13, 405
„ and Stearic acids, melting points and mode of solidification of mixtures of	17, 114	Parabanic acid.	9, 442
Palmitins	7, 238; 16, 376	Paracacodylic oxide ...	9, 326
Palmitone	16, 382	Paracapputene	14, 511
Palmitonic acid	16, 366	Paracampiphoric acid	14, 463
Palm-oil or Palm-butter . .	16, 397	Paracarthamin	16, 524
„ -oil, preparation of palmitic acid from	16, 353	Paracellulose	15, 126, 144
Palms, cane-sugar in	15, 240	Paracelsus	1, 4
Palm-wax	18, 161	Parachloronaphthalase . .	14, 44
<i>Panacea duplicata</i>	4, 39	Paracomenic acid	11, 410
„ <i>holstata</i>	3, 39	Para-copaiba oil	14, 288
		Paracyanide of Silver	11, 373
		Paracyanogen	11, 371
		Paradigitaletin	16, 330
		Paraffin	18, 165
		„ from bituminous shale	18, 167
		„ from Boghead coal	18, 167
		„ composition of	18, 169
		„ from earth-oil or petroleum	18, 168
		„ formation of, by destructive distillation of wood	7, 43
		„ from peat	18, 167
		„ preparation of cerotic acid by oxidation of	18, 136
		„ Reichenbach's	18, 165
		Paraglobin	18, 271
		„ precipitation of, from diluted blood-serum by carbonic acid	18, 275
		Paraglobularetin	15, 39
		Paraglobulin	18, 271

Paraglycocholic acid	18, 61	Pastel-vat	18, 39
Paragonite	3, 451	Pasteur's discoveries relating to circular polarisation in organic bodies	7, 65
Paraguay-tea, preparation of caffeine from	13, 227	Pastmaene	18, 205
Paralbumin	18, 231	Paulite	3, 401
Paramenispermene	17, 53	<i>Pausus</i> , phosphorescence of	1, 185
Paramide	10, 16	Peach-leaf oil	12, 29
Paramidic acid	10, 20	Pea-ore	5, 284
Paramucic acid	11, 512	Pearlash	3, 14
Paramylone	15, 122	Pearson's animal oxide	10, 456
Paranaphthalin, <i>see</i> Anthracene		Peas, composition of legumin from	18, 130
Paranicene	14, 112	" phosphoretted oil of	16, 457
Paranicene	14, 181	" preparation of cholestein from	18, 112
Parantraniline	11, 289	Peat, distillation of	15, 154
Parapectic acid	15, 410	" humus substances in	17, 459, 471
Parapectin	15, 399	" resins of	17, 442
Parapectone	18, 336	Pectate of Ammonia	15, 406
Pararhodeoretin, <i>see</i> Jalapin.		Pectates, metallic	15, 406
Paratodo bitter	18, 237	Pectate of Morphine	16, 436
Parasalicyl	12, 244	Pectic acid	15, 401
Parasulphate of ammonia	2, 460	" compounds of, with salts	15, 409
Paratartaric acid	10, 346	" (Sacc's) from wood	15, 413
Paratartalic acid	10, 361	Pectin, general view of the transformations of	15, 397
Paratartrellic acid	10, 361	" memoirs relating to	15, 392
Parathionates	10, 517	" occurrence and formation of	15, 393
Parchment, vegetable	15, 138	" preparation of	15, 395
Parellic acid	16, 295	" properties of	15, 396
Paricene	17, 571	Pectolactates	15, 231
Paridin	18, 125	Pectolite	3, 394
Paridol	18, 125	Pectosates	15, 401
Parietic acid, <i>see</i> Chrysophanic acid.		Pectous substances, mutual relations of	15, 397
Parietin, <i>see</i> Chrysophanic acid.		<i>Peganum Harmala</i> , existence of harmaline in the seeds of	16, 116
Parighn	16, 99	" preparation of harmaline from	16, 104
Parillic acid, <i>see</i> Parighn.		Pelargonate of Ethyl	13, 372
Paris Blue	7, 437	Pelargonates, metallic	13, 370
<i>Paris quadrifolia</i> , fatty oil from the roots and seeds of	17, 97	Pelargone	13, 374
Paris resin	18, 121	Pelargonene	13, 367
Paristypmin	15, 346; 18, 126	" bichloride	13, 368
<i>Parmelia ceratophylla</i> var <i>phy-sodes</i> , ceratophyllin from	15, 535	Pelargonic acid	13, 369
" <i>parietina</i> , oil of	14, 391	" anhydride	13, 373
" preparation of chrysophanic acid from	16, 172	Pelargonium oil	14, 392
Parsley-camphor	15, 41	Pelargyl chloride	13, 377
" oil of	14, 307, 17, 97	Pelhome	3, 434
" preparation of apun from	16, 94	Pelletier's Phosphorous acid	2, 120
Parting of Gold and Silver	6, 204	Pelluteine	17, 27
Partitions, imperfect, effect of, in the voltaic circuit	1, 486	Pelopiates	4, 22
" or Interposed Plates, effect of, in the voltaic circuit	1, 478	Pelopie acid	4, 20
Parvolne	13, 351		
Passive state of Iron	1, 355, 360		

Pelopic acid, sulphate of	4, 22	Pentathionates.	2, 164
Peloprium	4, 20	Pentathionate of Baryta	3, 150
„ chloride	4, 22	„ Potash	3, 37
„ sulphide	4, 22	„ Silver-oxide	6, 153
Pelosine	17, 25	„ Soda	3, 99
<i>Penicillium glaucum</i>	7, 110	Pentathionic acid	2, 162
„ action of, in		„ action of, on mer-	
inducing lactous fermentation	15, 277	cury salts	6, 27
<i>Pennatula phosphorea</i> , phos-		Pepper oil	14, 307
phorescence of	1, 186	„ „ from Long Pepper	14, 308
Pennine	3, 420	„ preparation of pipernine	
Pennyroyal, oil of	14, 352	from	15, 19
Pentabasic arseniate of cupric		Peppermint-camphor	14, 449
oxide	5, 471	„ „ chlorinated	14, 453
Pentabromonaphthalin, bihydro-		„ crude oil of	14, 451
bromate of	14, 37	„ oil, stearoptene of	14, 450
Pentachloracetone	13, 465	Peptones	18, 263, 386
Pentachloride of Antimony	4, 369	Perauric acid	6, 209
„ Antimony with		Perbromide of Cacodyl, basic	9, 342
bichloride of		„ Potassium	3, 54
Sulphur	4, 370	Perchlorates	2, 318
„ Antimony, with		Perchlorate of Alumina	3, 317
cyanide of		„ Ammonia	2, 480
Ethyl	13, 457	„ Baryta	3, 161
„ Antimony, with		„ Brucine	17, 580
cyanide of		„ Cadmic oxide	5, 60
Methyl	13, 412	„ Cinchonine	17, 209
„ Antimony, with		„ Codeine	17, 33
phosphuretted		„ Cupric oxide	5, 442
Hydrogen	4, 370	„ Ethyl	8, 467
„ Antimony, with		„ Ferrous oxide	5, 256
tersulphide of		„ Furfurine	10, 380
Antimony	4, 370	„ Lead-oxide	5, 148
„ Phosphorus	2, 329	„ Lime	3, 212
„ Phosphorus ac-		„ Lithia	3, 131
tion of, on		„ Magnesia	3, 243
glycol	13, 423	„ Manganous oxide	4, 230
„ Phosphorus, ac-		„ Mercuric oxide	6, 62
tion of, on		„ Mercurous oxide	6, 62
organic com-		„ Morphine	16, 431
pounds	7, 130	„ Potash	3, 62
„ Phosphorus, sul-		„ Quinine	17, 282
phate of	2, 341	„ Silver-oxide	6, 167
Pentachlorocaprylene	13, 216	„ Soda	3, 115
Pentadecetyl hydride	16, 534	„ Strontia	3, 179
Pentafluoride of Antimony	4, 371	„ Strychnine	17, 493
Pentaide of Arsenic	4, 283	„ Uranous oxide	4, 182
„ Tetramethylum	10, 498	„ Zinc-oxide	5, 33
„ Trimethylethylum	13, 484	Perchloric acid	2, 316
Pentautro-itaconanilide	11, 369	Perchloride of Acetyl	9, 194
Pentasulphate of terchloride of		„ Cacodyl ?	9, 346
sulphur	2, 343	„ Carbon, sulphite	
Pentasulphide of Ammonium	2, 452	of	2, 357, 7, 350, 354
„ Antimony	4, 354	„ Formyl	7, 342
„ Calcium	3, 198	„ Formyl (so called)	9, 199
„ Copper	5, 422	„ Phosphorus	2, 329
„ Lead	5, 134	Perchlorinated Ether, comcurrent	
„ Phosphorus	2, 217	properties of	10, 537
„ Potassium	3, 34	„ Vinic Ether	9, 216

Perchlorocarbonic Ether	9, 223	Permanganate of Silver-oxide	6, 186
Perchloromethylic Acetate	9, 236	„ Soda	4, 238
„ Formiate	9, 235	„ Strontia	4, 212
„ Oxalate	9, 176	„ Zinc-oxide	5, 49
Perchloronaphtalese, <i>see</i> Bihydrochlorate of Quadrichloronaphtalim	14, 62	Permanganates, general properties of	4, 212
Perchloronaphtalim acid	14, 69	Permanganic acid	4, 209
Perchloronaphtalim ...	14, 61	„ acid, sulphate of	4, 224
Perchlororubian	16, 61	Permeitylo-sulphuric acid	9, 30
Perchlorosalicin	15, 448	Perowskine	5, 302
„ compound of, with buchlorosalicin	15, 419	Perowskite	3, 486
Perchlorosuccinic Ether	10, 143	Peroxide of Acetyl	13, 446
Perchlorovinic Acetate	9, 240	„ Barium	3, 138
„ Formiate	9, 233	„ Benzoyl	13, 416
„ Oxalate	9, 242	„ Bismuth	4, 431
Perchloroxalic Ether	9, 242	„ Calcium	3, 185
Perchloroxynaphtalim, Chloride of	14, 70	„ Chlorine	2, 309
Perchromate of Quinine	17, 284	„ Cobalt	5, 322
Perchromic acid	4, 120	„ Copper ?	5, 413
Pererime	17, 317	„ Hydrogen	2, 73
Perchme	3, 443	„ Hydrogen, electrolysis of	1, 451
Periodates	2, 260	„ Hydrogen, emission of light in the sudden decomposition of	1, 206
Periodate of Baryta	3, 155	„ Iron	5, 194
„ Bruceine	17, 579	„ Lanthanum	3, 278
„ Cinchonine	17, 208	„ Lead	5, 120
„ Cupric oxide	5, 431	„ Lithium	3, 127
Periodates, Ferrous and Ferric	5, 250	„ Manganese	4, 205
Periodate of Lead-oxide	5, 144	„ Manganese with Cupric oxide	5, 468
„ Lime	3, 204	„ Manganese with Peroxide of Cobalt	5, 347
„ Lithia	3, 180	„ Nickel	5, 365
Periodates, Mercurous and Mercuric	6, 41	„ Nitrogen, <i>see</i> Hypo-nitric acid	
Periodate of Potash	3, 53	„ Potassium	3, 16
„ Quinine	17, 279	„ Silver ?	6, 145
„ Silver-oxide	6, 158	„ Silver, nitrate of	6, 172
„ Soda	3, 109	„ Sodium	3, 77
„ Strontia	3, 176	„ Stilbene	12, 178
„ Strychnine	17, 492	„ Strontium	3, 170
„ Veratrine	18, 183	„ Tin	5, 71
Periodic acid	2, 259	„ Zinc	5, 13
„ acid, solution of, in alcohol	8, 264	Peroxides	2, 40
Periodide of Ammonium	2, 468	„ action of, on organic compounds	7, 80
„ Calcium, hydrated	3, 203	Per-salts of Iron	5, 198
„ Tellurium	4, 410	Persian berries, occurrence of Xanthorrhannin in ripe	16, 72
Permanent gases and vapours, distinction between	1, 257	Persio, syn. with Archil	
Permanganate of Ammonia	4, 231	Persoz's law relating to the colour of a compound	1, 96
„ Baryta	4, 241	„ laws relating to the formation of chemical compounds	1, 96
„ Cupric oxide	5, 468	Perspiration, colouring matters of	18, 422
„ Lime	4, 242		
„ Lithia	4, 241		
„ Magnesia	4, 242		
„ Potash	4, 235		
„ Potash, action of, on organic compounds	7, 127		

Perspiration, phosphorescence of	1, 187	Phalene sulphide	9, 394
Perselenide of Strontium	3, 175	Phenakite	3, 410
Persulphide of Allyl?	9, 377	Phenamylol	12, 272
" Arsenic	4, 280	Phenate of Methyl	12, 261
" Hydrogen	2, 193	Phenetol	12, 270
" Hydrogen, iodur-		Phenidine	12, 87
retted	2, 268	Phenol, syn. with Carboic acid	11, 139
" Lithium	3, 129	Phenyl, Benzoate	12, 86
" Phosphorus	2, 218	" Chloride	11, 173
" Strontium	3, 173	" Chlorosulphate	13, 455
Persulphocyanides	3, 107	" Cummate	14, 157
Persulphomolybdate of Ammo-		" Cyamide	12, 161
mum	4, 68	" Hydrate	11, 139
" Auric	4, 237	" " preparation of,	
" of Bismuth	4, 448	according to Laurent	11, 143
" Cadmium	5, 65	" Cnanthylate	12, 454
" Cerium	4, 77	" Amisyl and Hydrogen,	
" Chromium	4, 156	nitride of	13, 145
" Cobalt	5, 317	" and Bibenzoyl, nitride	
" Copper	5, 467	of	12, 156
" Ferric	5, 298	" Benzoyl and Hydrogen,	
" Ferrous	5, 298	nitride of	12, 155
" of Lead	5, 168	" and Citraconyl, nitride	
" Manganese	4, 247	of	11, 321
" Mercuric	6, 112	" and Malyil, nitride of	11, 319
" Mercurous	6, 112	" Sulphobenzoyl and Hy-	
" of Nickel	5, 387	drogen, binitride of	12, 160
" Silver	6, 183	" and Pyrotartryl, nitride	
" Stannic	5, 101	of	11, 326
" Stannous	5, 101	Phenylamine	11, 216
" Uranic	4, 193	Phenylbenzamide	12, 155
" of Zinc	5, 47	Phenylcarbamic acid	12, 326
Persulphomolybdic acid	4, 61	Phenyl-citraconimide	11, 321
Peru Balsam	17, 389	" -citramide	11, 469
" oil of	13, 283	" -citrimide	11, 467
" preparation of cin-		" -dibenzamide	12, 156
namic acid from	13, 270	" -ethyl-urea	11, 333
Peruric acid	10, 484	Phenylc chloride, sulphate of	11, 175
Pervanadic acid?	4, 89	Phenylhmesatin	13, 83
Petalite	3, 445	Phenyl-itaconamide	11, 369
<i>Petasites vulgaris</i> , resins of	17, 451	" -itaconimide	11, 408
Petimine	10, 150	" -malamide	11, 368
Petrified cork	3, 407	" -malimide	11, 319
Petroleum	12, 439	" -naphthylamine, sulpho-	
" American, hydro-		cyanide of	14, 123
carbons obtained		" -naphthyl, sulphocaba-	
from	16, 532	mide	14, 123
" paraffin from	18, 168	" -phthalamic acid	13, 31
Peucedanum	12, 98	" -phthalimide	13, 32
<i>Peucedanum Oreoselinum</i> , oil		" -pyrotartrimide	11, 326
of	14, 308	" -roccellamide	16, 478
Peucyl, <i>see</i> Terebiline,		" -valeramide	11, 333
Pewter	5, 103	<i>Philadelphus coronarius</i> , volatile	
Phacolite	3, 431	oil from the flowers of	14, 401
Phaconin	18, 332	Phillipsine	5, 489
Phæoretin	16, 197	Phillipsite	3, 451, 446
Phalene sulphide	9, 394	Philygenin	17, 525
Phaseomannite	15, 352	Philyrin	15, 347, 17, 526
Pheasant's fat	16, 398	Philobaphene	16, 493

- Phlogistic theory . . . 1, 4, 2, 35
 Phloramine .. 15, 69
 Phloretamic acid . . . 13, 335
 Phloretate of Urea . . . 13, 313
 Phloretates, metallic . . . 13, 309
 Phloretic acid ... 13, 307
 Phloretin . . . 15, 347; 16, 8
 Phloretol .. 13, 316
 Phlorizein .. 16, 17
 Phlorizein-ammonia . . . 16, 18
 Phlorhizin . . . 15, 347
 Phlorizin, or Phloridzin . . . 16, 11
 " hydrated . . . 16, 15
 " metallic derivatives
 of.... 16, 16
 Phloroglucin . . . 15, 65
 Phocenn .. 11, 77
Pholas dactylus, phosphor-
 escence of . . . 1, 185
 Pholerite .. 3, 414
 Phorone .. 13, 342, 471
 Phoryl, chloride .. 13, 318
 Phosgene . . . 2, 326
 " formation of urea by
 the action of am-
 monia on 13, 402
 " solubility of, in alco-
 hol .. 8, 264
 Phosphacetic acid . . . 9, 6
 Phosphamide .. 2, 438
 Phosphantamonic acid, reaction of,
 with can-
 chonine 17, 216
 " reaction of,
 with bru-
 cine .. 17, 581
 " reaction of,
 with quin-
 ine . 17, 284
 " reaction of,
 with stry-
 chnine . 17, 495
 Phosphates, in general . . . 2, 131
 " ordinary 2, 133
 " action of oxalic acid
 on .. 13, 515
 " alkaline, electrolysis
 of . 1, 460
 " Fleitmann and
 Henneberg's .. 2, 134
 " of Alumina . . . 3, 309
 " " and Li-
 thia .. 3, 326
 " " and Mag-
 nesia 3, 328
 Phosphate (ordinary) of Am-
 monia .. 2, 441
 " of Amyl, tribasic .. 11, 527
 Phosphates of Aniline ... 11, 256
 Phosphate of Antimonic oxide . . . 4, 336
 " Arsenious acid 4, 271
 Phosphates of Baryta .. 3, 113
 Phosphate of Baryta with nitrate
 of baryta 3, 166
 " Benzidine 11, 339
 " Bismuth-oxide 4, 434
 " Brucine . . . 17, 578
 " Cadmic oxide, or-
 dinary . 5, 56
 " Casein . . . 18, 314
 " Cerous oxide . 3, 265
 " Chehdonne 17, 165
 " Chelerythrine . 17, 159
 " Chloraniline . 11, 283
 " Chromium . 4, 123
 " Cinchonidine . 17, 223
 " Cinchonine . 17, 206
 " Cobalt-oxide . 5, 331
 " Codene .. 17, 32
 " Cumidine 13, 349
 " Cupric oxide 5, 418
 " Cystine 9, 439
 " Ethyl . . . 8, 399
 " Ethylamine and
 Magnesium . 13, 480
 " Ferrico-ammonic 5, 261
 " of Ferric oxide 5, 225
 " Ferric oxide and
 Ammonia . 5, 261
 " Ferric oxide and
 Manganic oxide 5, 303
 " Ferroso-ammonic 5, 260
 " of Ferrous oxide . 5, 224
 " Ferrous oxide and
 Ammonia 5, 260
 " Furfurine .. 10, 378
 " Glaucine . . . 17, 161
 Phosphates of Glucina ... 3, 397
 Phosphate of Guanine . 10, 481
 " Harmaline .. 16, 117
 " Hydrargethyl ... 10, 532
 " Hydroberberine .. 17, 254
 " Lanthanum-oxide 3, 278
 " Lead-oxide . 5, 130
 " Lead-oxide with
 Hydrate of Alu-
 mina .. 5, 165
 " Lead-oxide and
 Lime with Chlo-
 ride of Lead ... 5, 164
 Phosphates of Lime . . . 3, 192
 Phosphate of Lime and Pot-
 ash 3, 215
 " Lithia .. 3, 123
 " Lithia and Ammo-
 nia .. 3, 132
 " Lithia and Soda . 3, 132
 " Magnesia.... 3, 232

Phosphate of Magnesia and Ammonia ..	3, 245	Phosphate of Vanadic acid and Soda ..	4, 100
„ Manganic oxide ..	4, 217	„ Vanadic oxide ..	4, 90
„ Manganico-ferric ..	5, 303	„ Veratrine ..	18, 182
„ Manganoso-ferrous ..	5, 301	Phosphates of Yttria ..	3, 287
„ of Manganous oxide ..	4, 215	Phosphate of Zinc-oxide, ordinary ..	5, 17
„ Manganous oxide and Ammonia ..	4, 231	„ Zinc-oxide and Ammonia ..	5, 36
„ Manganous oxide and Ferrous oxide ..	5, 301	„ Zirconia ..	3, 344
„ Melaniline ..	11, 353	Phosphatic acid ..	2, 128
„ Menaphthylamine ..	14, 126	Phosphide of Aluminum ..	3, 309
„ Mercuric oxide	6, 18	„ Antimony ..	4, 335
„ Mercurous oxide ..	6, 17	„ Arsenic ..	4, 271
„ Methyl-strychnine ..	17, 508	„ Barium ..	3, 141
„ Molybdous oxide and Ammonia ..	4, 68	„ Bismuth ..	4, 433
„ Morphine ..	16, 430	„ Cadmium ..	5, 56
„ Naphthylamine ..	14, 98	„ Calcium ..	3, 189
„ Narcotine ..	16, 143	„ Carbon ? ..	2, 119
„ Nickel-oxide ..	5, 369	„ Cesium	3, 265
„ Nickel-oxide and Ammonia ..	5, 380	„ Chromium ..	4, 122
„ Nickel-oxide and Magnesia ..	5, 386	„ Cobalt ..	5, 329
„ Nicotine ..	14, 227	„ Copper ..	5, 415
„ Osmous oxide ..	6, 410	„ Glucinum ..	3, 297
„ Palladious oxide ..	6, 346	„ Gold ..	6, 210
„ Paricine ..	17, 572	„ Hydrogen, liquid ..	2, 148
„ Phosphoric oxide ..	2, 150	„ Iridium ..	6, 375
„ Potash, terbasic ..	3, 28	„ Iron ..	5, 222
„ Quinine ..	17, 276, 615	„ Lead ..	5, 128
„ Rhodic oxide ..	6, 361	„ Manganese ..	4, 214
„ Seminaphthylamine ..	14, 108	„ Mercury ..	6, 17
„ Silver-oxide ..	6, 148	„ Mercury, with Mercuric Nitrate ..	6, 76
Phosphates of Silver-oxide Fleitmann and Henneberg's ...	6, 151	„ Mercury, with Mercuric Sulphate ..	6, 32
Phosphate of Soda, ordinary ..	3, 90	„ Mercury, with Mercurous Nitrate ...	6, 75
„ Soda and Ammonia ...	3, 118	„ Nickel ..	5, 368
„ Soda and Potash ..	3, 119	„ Nitrogen ..	2, 436
„ Solanine ..	18, 95	„ Osmium ..	6, 410
„ Stannethyl ..	9, 97	„ Palladium ...	6, 346
„ Stannous oxide ..	5, 77	„ Platinum	6, 286
Phosphates of Strontia ..	3, 172	„ Potassium ..	3, 26
Phosphate of Strychnine	17, 490	„ Silver	6, 147
„ Tantalic acid ..	4, 4	„ Sodium ..	3, 89
„ Thorina	3, 332	„ Strontium ..	3, 171
„ Titanic oxide ..	3, 477	„ Thorium ..	3, 332
„ Uranic oxide and Cupric oxide	5, 468	„ Tin ..	5, 77
Phosphates of Uranic oxide ..	4, 171	„ Titanium ..	3, 476
Phosphate of Uranic oxide and Lime ..	4, 191	„ Tungsten	4, 32
„ Uranous oxide ..	4, 171	„ Vanadium ..	8, 90
„ Vanadic acid ..	4, 90	„ Yttrium ..	3, 286
„ Vanadic acid and Silica ..	4, 103	„ Zinc ..	5, 17
		Phosphides, metallic ..	2, 151
		Phosphite of Alumina ..	3, 309
		„ Ammonia ..	2, 441
		„ Amyl ..	11, 47
		„ Antimonic oxide	4, 336
		Phosphites of Baryta ..	3,

Phosphite of Bismuth-oxide	4, 434		ing the elec-
" Cadmic oxide	5, 56		tric discharge
" Chromic oxide	4, 123		through bodies
" Cobalt-oxide	5, 330	Phosphorescence	produced by
" Cupric-oxide	5, 417		pressure on
" Ethyl and Barium	9, 360		pulverised
" Ethyl, tribasic	9, 358		bodies
" Ferric oxide	5, 223	"	of putrefying
" Ferrous oxide	5, 223		animals
" Glucina	3, 297	"	of putrefying
" Lead-oxide	5, 129		fish
"	3, 232	"	of putrefying
" Magnesia and Am-			fish, interrup-
" moma	3, 245		tion of, by a
" Manganous oxide	4, 215		freezing tem-
" Nickel-oxide	5, 368		perature
" Potash	3, 28	"	of putrefying
" Soda	3, 90		plants
" Stannic oxide	5, 77	"	of the sea
" Strontia	3, 172	"	of solid bodies
" Titanic oxide	3, 477		produced by
" Zinc-oxide	5, 17		tearing, split-
Phosphites, general properties of	2, 119		ting, or rub-
Phosphobimethyl	7, 328		bing
Phosphobromide, Mercuric	6, 45	"	steady, of plants
Phosphocerite	3, 266	"	sudden, of cer-
Phosphochloride of Mercury	6, 62		tain yellow
Phosphoglyceric acid	9, 492		flowers
Phosphomethylamine	7, 328	"	how affected by
Phosphomolybdate of Ethylamine	13, 481		temperature
Phosphomolybdic acid, reaction		"	of urine
of, with bru-		Phosphoretted	Brain-fat (Mul-
cine ...	17, 581		ler's) ..
" acid, reaction		"	Fats ...
of, with		"	Hydrogen, see
strychnine	17, 495		Phosphuretted
Phosphonitrate of Lead-oxide	5, 158		Hydrogen.
" Mercurous-		"	Oil of Peas
oxide	6, 75	Phosphoric acid	..
Phosphorescence	1, 162	"	action of, on
" of elastic fluids		"	alcohol
produced by		"	action of, on
compression	1, 205	"	organic com-
" by insolation or		"	pounds ..
irradiation	1, 193	"	compound of,
" by insolation,		"	with iodic acid
colour of the		"	copulated acids
light of	1, 197	"	produced by,
" by insolation,		"	with alcohol
duration of	1, 196	"	and glycerin
" of liquids, pro-		"	crystallised
duced by		"	electrolysis of
compression	1, 205	"	glacial
" of living ani-		"	impurities in
mals	1, 181	"	ordinary, hy-
" of living plants	1, 187	"	drate
" nature of	1, 181	"	ordinary, pre-
" of perspiration	1, 187	"	paration of,
" produced by pass-		"	solution of ..

Phosphoric Acid, purification of	2, 130	Phosphorus Pentachloride, action	
" Chloride	2, 329	of, on glycol	13, 423
" Ether .	8, 171, 399	" Pentachloride, action	
" Hyposulphide ...	2, 212	of, on organic com-	
" Oxide ..	2, 110	pounds	7, 130
" " compound of,		" Pentachloride, sul-	
with ammonia	2, 440	phate of	2, 341
" " compound of,		" preparation of	2, 103
with potash	3, 27	" preparation of phos-	
" Phosphate .	2, 150	phoric acid by oxida-	
" Salt ..	3, 118	tion of, with	
" Sulphide .	2, 217	nitric acid	2, 127
Phosphorocalcite .	5, 418	" properties of	2, 106
Phosphorous acid ..	2, 115	" purification of	2, 105
" " copulated acids		" Realgar- .	1, 194
produced by,		" red or amorphous	2, 108
with alcohol		" Selenide	2, 242
and fusel-oil	7, 224	" and Silver, sulphide	
" Chlorides ..	2, 338	of	6, 155
" Hyposulphide .	2, 209	" sources of	2, 103
" Sulphide ...	2, 215	" with Stannic Chlo-	
Phosphorus ...	2, 100	ride	5, 89
" Ammonio-pentachlo-		" solubility of, in vola-	
ride of ..	2, 483	tile oils	7, 168
" Ammonio-terbromide		" solution of, in alco-	
of	2, 470	hol ..	8, 263
" Ammonio-terchloride		" Strontian- .	1, 193
of ..	2, 481	" sulphides of	2, 207—219
" Antimonial	1, 194	" Terbromide, expan-	
" Arsenical ..	1, 194	sion of, by heat	1, 226, 229, 230
" Baldwin's	1, 194	" Terchloride, action of,	
" in bar-iron	5, 205	on alcohols, ethers,	
" Bonnonian	1, 193	acids, &c	10, 487
" Bromide of	2, 281	" Terchloride, action	
" Canton's .	1, 193	of zinc-ethyl on .	12, 521
" in cast-iron ..	5, 214	" Terchloride, action	
" Chlorides .	2, 328, 329	of zinc-methyl on	12, 491
" Chlorosulphide of ...	2, 334	" Terchloride, com-	
" commercial, impu-		pound of, with	
rities in ..	2, 104	cyanide of methyl	13, 411
" compounds of, with		" Terchloride, expan-	
hydrogen	2, 135	sion of, by heat	1, 226, 229, 230
" compounds of, with		" Wach's ..	1, 194
oxygen ..	2, 110	white	2, 107
" Cyanide .	8, 147	Phosphosulphate of Ferric oxide	5, 246
" Ethyl-bases contain-		Phosphotrimethylamine	7, 328
ing ..	13, 492	Phosphovimates ..	8, 399
" Fluoride of .	2, 364	Phosphovinic acid	8, 399
" history of ..	2, 102	Phosphuret of Baryta	3, 139
" Homberg's	1, 194; 3, 206	" Lime ..	3, 187
" Iodide of ..	2, 265	Phosphuretted Hydrogen, absorp-	
" luminosity of, in the		tion of, by alcohol	8, 263
air	2, 117	" Hydrogen, Chloro-	
" memoirs relating to	2, 100	stannate of	5, 89
" Methyl-bases con-		" Hydrogen with	
taining	7, 328; 13, 492	Chloride of Alu-	
" Oxychloride of	2, 330	minum	3, 317
" Organic bases con-			
taining	10, 488		

- Phosphuretted Hydrogen with Chloride of Titanium . . . 3, 480
- „ Hydrogen gas, decomposition of 2, 140
- „ Hydrogen gas, difference of inflammability of the two varieties of 2, 144
- „ Hydrogen gas, formation of 2, 136
- „ Hydrogen gas, preparation of . 2, 138
- „ Hydrogen gas, properties of 2, 140
- „ Hydrogen, Hy-driodate of . 2, 265
- „ Hydrogen, Hy-drobionate of 2, 283
- „ Hydrogen, Hy-drochlorate of 2, 331
- „ Hydrogen and Hydrochloric acid with Chloride of Titanium 3, 481
- „ Hydrogen with Pentachloride of Antimony . 4, 370
- „ Hydrogen, Sul-phate of ... 2, 220
- „ Sulphide of Carbon ... 2, 219
- Phthalamic acid . . . 13, 30
- Phthalamine . . . 13, 21
- Phthalates . . . 13, 12
- Phthalic acid . . . 13, 10
- „ anhydride . . . 13, 14
- Phthalidine . . . 13, 33
- Phthalamates . . . 13, 30
- Phthalimide . . . 13, 31
- Phytic acid . . . 13, 238
- Phycite . . . 12, 385
- Physalin . . . 16, 191
- Physalin*, phosphorescence of . 1, 184
- Phytolate of Ethyl . . . 16, 319
- Phytolic acid . . . 16, 317
- Physeler macrocephalus*, sperm oil obtained from . . . 16, 321
- Physiological relations of chemical compounds ... 1, 96
- „ relations of organic compounds . . . 7, 66
- Physiology, Chemical, subjects of 7, 1
- Physodm . . . 15, 57
- Physostigmine . . . 18, 205
- Phyteumacolla . . . 18, 451
- Phytocoll . . . 18, 451
- Phytolacca, decandra*, phosphorescence of . . . 1, 188
- Piauzite . . . 17, 440
- Picamar . . . 15, 162
- Pichrolichenin . . . 15, 55
- Pichurates, *see* Laurates.
- Pichurim beans, preparation of Lauric acid from .. 15, 45
- fat . . . 16, 398
- Pickling of meat with salt and nitre . . . 7, 117
- Picoline . . . 11, 263
- „ Acetate . . . 11, 271
- „ Butyrate . . . 11, 271
- „ Chloroplatinate . . . 11, 270
- „ Copper-salts . . . 11, 269
- „ Cupro-acetate . . . 11, 271
- „ decompositions of . . . 11, 267
- „ formation of . . . 11, 263
- „ Gold-salts . . . 11, 270
- „ Hydrochlorate.. . . 11, 268
- „ Hydriodate . . . 11, 268
- „ Mercury-salts . . . 11, 269
- „ Nitrate . . . 11, 268
- „ Oxalate . . . 11, 271
- „ Platinum-salts . . . 11, 270
- „ preparation of . . . 11, 264
- „ properties of . . . 11, 266
- „ Salts . . . 11, 267
- „ Sulphate . . . 11, 268
- „ Sulphite . . . 11, 268
- Picramic acid . . . 11, 243
- Picramide . . . 11, 245
- Picramyl, Nitride of . . . 12, 191
- „ oxide . . . 12, 18
- Picrate of Ammonia . . . 11, 220
- „ Aniline . . . 11, 263
- „ Baryta . . . 11, 211
- „ Berberine . . . 17, 196
- „ Chinoline . . . 13, 253
- „ Cinchonine . . . 17, 219
- „ Cobalt . . . 11, 225
- „ Cocaine . . . 16, 303
- „ Copper . . . 11, 226
- Picrates of Lead . . . 11, 223
- Picrate of Lime . . . 11, 222
- „ Magnesia . . . 11, 222
- „ Manganese . . . 11, 222
- „ Mercuric . . . 11, 227
- „ Mercurous . . . 11, 227
- „ Morphine . . . 16, 436
- „ Nickel . . . 11, 226
- „ Oxyacanthine . . . 17, 199
- „ Potash . . . 11, 220
- „ Quinidine . . . 17, 392
- „ Quinine . . . 17, 292
- „ Silver . . . 11, 227
- „ Sparteine . . . 13, 154
- „ Soda . . . 11, 211
- „ Solanine . . . 18, 98
- „ Strontia . . . 11, 222

Picrate of Strychnine . . .	17, 504	<i>Pinus Dammara</i> , resin of . . .	17, 335
„ Zinc . . .	11, 223	„ <i>maritima</i> , turpentine	
Picric acid . . .	11, 211	„ from . . .	18, 17
„ acid, compound of, with		„ <i>Picea</i> , hardened white	
anthracene . . .	16, 167	resin from the	
ether . . .	11, 227	trunk of . . .	18, 16
Picril . . .	12, 186	„ „ oil from the seeds	
Picroerythrin . . .	12, 380	of . . .	16, 316
Picropharmacolite . . .	4, 308	„ <i>sylvestris</i> , Kawalier's	
Picrophyll . . .	3, 398	resin from . . .	15, 34
Picrosmine . . .	3, 397	„ „ oil from the	
Picrotoxin . . .	14, 473	seed of . . .	16, 315
„ compound of, with		„ „ phlobaphene	
Brucine . . .	17, 585	from the	
„ with Strychnine . . .	17, 504	outer bark	
Pierre's experiments on the ex-		of . . .	15, 494
pansion of liquids . . .	1, 225	„ „ resin from the	
Pig-bile, colouring matter of . . .	18, 80	stem of . . .	18, 15
„ preparation of hyogly-		Pine-resins, constituents of . . .	18, 2
cocholic acid from . . .	18, 102	„ -sugar . . .	15, 212
„ preparation of neurine		Pinguite . . .	5, 287
or choline from . . .	18, 380	Pinic acid . . .	18, 9
Pig-iron or cast-iron . . .	5, 210	Pinocorretin . . .	15, 33
„ -iron, molybdenum in . . .	5, 297	Pinocortannic acid . . .	15, 491
„ -lead . . .	5, 106	Pinipicrin . . .	15, 347, 16, 26
Pigment, black, of the eye . . .	18, 417	Pintannic acid . . .	15, 488
„ green, from jaundiced		Pinitartaric acid . . .	15, 214
urine . . .	18, 80	Pinte . . .	3, 437; 15, 212
„ of pigs' bile . . .	18, 80	Pinityl, bistearate of . . .	17, 125
„ serpents' bile . . .	18, 80	„ quadristearate of . . .	17, 126
Pigments of the bile . . .	18, 69	<i>Pinus sylvestris</i> , resins and wax	
„ buds' feathers . . .	18, 419	from the bark	
„ urinary . . .	18, 407	of . . .	18, 15
<i>Pigmentum indicum</i> . . .	13, 36	„ tannic acids . . .	
Pilchard oil . . .	16, 322	from . . .	15, 487
Pile of two elements, Zamboni's . . .	1, 427	„ „ turpentine from . . .	18, 14
Pimaric acid . . .	17, 323	„ <i>tæda</i> , turpentine from . . .	18, 19
Pimelate of Amyl . . .	12, 466	Piperate of Piperidine . . .	15, 14
„ Baryta . . .	12, 465	Piperates, metallic . . .	15, 9
„ Copper . . .	12, 465	Piperic acid . . .	15, 7
„ Ethyl . . .	12, 465	Piperidine . . .	10, 446, 15, 13
„ Silver . . .	12, 465	„ with sulphide of . . .	
Pimelic acid . . .	12, 463	carbon . . .	15, 15
Pimento, oil of . . .	14, 210	„ -urea . . .	15, 15
<i>Pimpinella Anisum</i> , volatile oil		Piperine . . .	15, 13
of . . .	14, 191	Piperyl-sulphocarbonate of pi-	
<i>Pimpinella</i> , oil of . . .	14, 392	peridine . . .	15, 15
<i>Pimpinella saxifraga</i> , resin of . . .	17, 451	„ -urea . . .	15, 15
Pinacone . . .	13, 469	Piprizaic acid . . .	16, 264
Pinates . . .	18, 12	Pissophane . . .	3, 312
Pinchbeck . . .	5, 479	<i>Pistacia Lentiscus</i> , fat of . . .	16, 398
Pine-bark, jelly from . . .	13, 240	„ resin of . . .	17, 423
„ -mastic . . .	18, 15	Pistacite . . .	3, 430
„ -needles, jelly from . . .	13, 239	Pitch, black . . .	15, 151, 153
Pink-salt . . .	5, 94	Pitchblende, uranium in . . .	4, 157
Pinonic acid . . .	18, 20	Pit-gas . . .	7, 249
<i>Pinus Abies</i> , turpentine from . . .	18, 17	Pitoyine . . .	17, 317
„ <i>balsamea</i> , turpentine		Pittacal . . .	15, 163
from . . .	18, 19	Pittazite . . .	5, 308

Ptyxylonic acid	15, 493	Platinic Hydrochlorate . . .	6, 295
Placodine	5, 388	„ Hydrofluatc	6, 296
Plagionite	5, 176	„ Iodate	6, 292
<i>Planaria retusa</i> , phosphorescence of	1, 185	„ Iodide	6, 291
<i>Plantago</i> , ferment-oil of various species of	14, 406	„ Oxide	6, 283
Plant-albumin	18, 426	„ Persulphomolybdate . . .	6, 331
„ -casein	18, 425	„ Salts	6, 283
„ -fibrin,	18, 425, 448	„ Silicofluoride	6, 330
„ -gelatin	18, 445	„ Sulpharsenate	6, 332
„ -lice, fats of	16, 398	„ Sulpharsenite	6, 332
Plants, electric currents in . .	1, 336	„ Sulphate	6, 290
„ living, phosphorescence of	1, 187	„ Sulphide	6, 287
„ occurrence of manganese in	4, 195	„ Sulphomolybdate	6, 331
„ phenomena exhibited by soft parts of, during fermentation	7, 101	„ Sulphotellurite	6, 333
„ putrefying, phosphor- escence of	1, 191	„ Sulphotungstate	6, 331
„ volatile acid principles of	14, 471	Platinico-aluminic sulphate .	6, 330
Plasmin	18, 320	„ -barytic sulphate	5, 327
Plaster of Paris	3, 201	„ -potassic nitrate	6, 323
<i>Platanus acerifolia</i> , phlobaphene from the bark of	15, 495	„ „ sulphate	6, 321
„ wax from bark of	18, 161	„ -sodic nitrate	6, 326
Plate-glass, coloration of, by exposure to light	1, 170	„ „ sulphate	6, 325
Plates, description of	1, 12, 13	Platindcyanide of Ammonium .	8, 47
„ interposed, effect of, on the voltaic circuit	1, 478	„ Potassium	8, 49
Platina, crude	6, 253	„ Silver	8, 58
Platinamine	6, 314	Platiniferous sand	6, 253
„ bihydrochlorate	6, 306, 311	Platinite of Potash	6, 320
„ nitrates	6, 311, 315	„ Soda	6, 323
„ sulphate	6, 311	Platinizing by galvanic precipita- tion	1, 500
Platinate of Ammonia	6, 296	Platinocyanides	10, 506, 12, 498
„ Baryta	6, 327	Platinocyanide of Ammonium .	8, 46; 10, 506
„ Lime	6, 328	„ Barium	8, 52, 10, 508
„ Potash	6, 320	„ Calcium	8, 53, 10, 508
„ Soda	6, 324	„ Cobalt with Ammonia	8, 55
„ Strontia	6, 328	„ Copper	8, 55; 10, 509
Platinhydrocyanate of Ammoni- um	11, 295	„ Ethyl	13, 459
Platinic Ammonio-nitrate ? . .	6, 311	„ Ethylammo- nium	13, 460
„ Arseniate	6, 332	„ Diplatosam- monium	8, 45
„ Ammonio-sulphate	6, 299	„ Magnesium	8, 53; 10, 509
„ Bromide	6, 292	„ Mercury	8, 57; 10, 510
„ Chloride	6, 294	„ Nickel with Ammonia	8, 55
„ Chromate	6, 331	„ Potassium	8, 47; 10, 507
„ Cyanide with hydro- cyanate of quinine	17, 287	„ Silver	8, 58
„ Hydrate	6, 283	„ Sodium	8, 52, 10, 507
		„ Strontium	10, 508
		„ Zinc with Am- monia	8, 55

Platinode	1, 431	Platinum Ammonio - protochloride	6, 800
Platinopicoline	11, 271	„ Ammonio-protocyanide	8, 45
Platino-platinidcyanide of Aluminium	8, 55	„ Ammonio-protioxide	6, 296
„ -platinidcyanide of Ammonium	8, 46	„ Antimonide	6, 333
„ -platinidcyanide of Barium	8, 52	„ Arsenide	6, 332
„ -platinidcyanide of Calcium	8, 53	„ Benzoate	12, 45
„ -platinidcyanide of Copper	8, 56	„ Bibromide	6, 292
„ -platinidcyanide of Iron	8, 55	„ Bichloride	6, 294
„ -platinidcyanide of Lead	8, 55	„ Bichloride with Bicnamylamine	13, 306
„ -platinidcyanide of Magnesium	8, 54	„ Bichloride with Biphenaniline	11, 335
„ -platinidcyanide of Potassium	8, 48	„ Bichloride with Cyanide of Ethyl	13, 457
„ -platinidcyanide of Sodium	8, 52	„ Bichloride with Lophine	12, 203
„ -platinidcyanide of Strontium	8, 53	„ Bichloride with Nitric oxide ?	6, 295
Platinopyridene	10, 407	„ Bichloride with Sulphethyl	8, 339
Platinosquecyanides	12, 499	„ Bicyanide with Chloride of Ammonium	8, 47
Platinoso-ammonio sulphate	6, 298	„ Bicyanide with Chloride of Potassium	8, 51
„ -potassic sulphate	6, 321	„ Bifluoride of	6, 296
„ -sulphite	6, 321	„ Bimodule	6, 291
„ -sodic sulphate	6, 324	„ Bisulphide	6, 287
Platinosulphate of Ethylamine	9, 61	„ Bisulphocyanide	8, 97
Platinous Acetate	8, 334	„ -black	6, 277
„ Ammonio-carbonate	6, 298	„ -black, effect of, in inducing the combination of hydrogen and oxygen	2, 51
„ Ammonio-nitrate	6, 310	„ blue oxide	6, 282
„ Ammonio-sulphate	6, 298	„ Boride ?	6, 286
„ Bromate	6, 293	„ Bromides	6, 202
„ Chloride	6, 293	„ Camphorate	14, 463
„ Cyanide	8, 43	„ Carbide	6, 285
„ Hydrate	6, 281	„ Chlorides	6, 293
„ Iodide	6, 290	„ Chlorides, hydrocarbonated	8, 388
„ Nitrate	6, 296	„ Chloriodide ?	6, 295
„ Oxide	6, 281	„ Chlorosulphide ?	6, 295
„ Oxide with Borax	6, 324	„ Chrysammate	12, 7
„ Oxide with Glass	6, 331	„ combustion induced by	2, 25
„ Salts	6, 282	„ Cyanides	8, 43
„ Sulphate	6, 289	„ Cyanide, compound of, with Casein	18, 318
„ Sulphide	6, 286	„ Ethylchloride	8, 388
„ Sulphate ?	6, 289	„ Ethylchloride with Chloride of Potassium	8, 391
Platinum	6, 252	„ Ethylchloride with Chloride of Sodium	8, 392
„ Acechloride	9, 31	„ Ethylchloride with Sal-ammoniac	8, 391
„ Amalgam	6, 338	„ -deposits on Copper and Brass	6, 276
„ Ammonio-compound of Ethylchloride of	8, 390		
„ Ammonio-bichloride	6, 305		
„ Ammonio-bin oxide	6, 297		
„ Ammonio-chlorobromide	6, 306		
„ Ammonio-nitrate of oxychloride	6, 311		
„ Ammonio-protiodide	6, 299		

- Platinum-deposits, detonating. . . 8, 387
- „ „ on glass . . . 7, 275
- „ Fluorides . . . 6, 296
- „ Fulminating . . . 6, 297
- „ general theory of the ammoniacal compounds of . . . 6, 313
- „ inflammable or detonating chloride of . . . 8, 388
- „ instantaneous light apparatus . . . 2, 57
- „ Mercaptide . . . 8, 349
- „ -ore, analysis of, according to Berzelius . . . 6, 259
- „ -ore, analysis of, according to Döbereiner and Weiss . . . 6, 266
- „ -ore, analysis of, according to Vauquelin, Wollaston, and others . . . 6, 255
- „ -ore, quantitative analysis of . . . 6, 259
- „ -ore, treatment of the portion of, insoluble in aqua regia . . . 6, 262, 265, 268
- „ Oxalates . . . 9, 170
- „ Oxides . . . 6, 281
- „ Oxidized sulphide . . . 6, 288
- „ Oxychloride, ammonio-phosphate of . . . 6, 309, 318
- „ Oxychloride, ammonio-sulphate of . . . 6, 310, 318
- „ Phosphide . . . 6, 286
- „ preparation of . . . 6, 253, 264, 267
- „ processes for rendering it malleable . . . 6, 271
- „ Protiodide . . . 6, 290
- „ properties . . . 6, 273
- „ Protochloride . . . 6, 293
- „ „ compounds of, with ethylamine . . . 9, 61
- „ Protochloride, compounds of, with methylamine . . . 7, 318
- „ Protocyanide . . . 10, 506
- „ Protosulphide . . . 6, 286
- „ reactions of . . . 6, 282, 283
- „ -resin . . . 9, 35
- „ „ crude . . . 9, 10
- „ Russian process for coinage of . . . 6, 272
- „ -sal-ammoniac . . . 6, 307
- Platinum-salts, solubility of, in alcohol . . . 8, 272
- „ Selenide . . . 6, 290
- „ separation of, from gold by fusion with nitre . . . 6, 203
- „ Sesqui-iodide . . . 6, 291
- „ Silicide . . . 6, 330
- „ Spongy . . . 6, 277
- „ „ effect of, in inducing the combination of hydrogen and oxygen . . . 2, 49
- „ Sulphides . . . 6, 286
- „ Sulphocarbonate . . . 6, 290
- „ surface-action of . . . 1, 37
- „ Thiocyanide . . . 8, 115
- „ and Barium, alloy . . . 6, 327
- „ and Bismuth, alloy . . . 6, 333
- „ and Cadmium, alloy . . . 6, 335
- „ and Copper, alloy . . . 6, 337
- „ Copper, and Zinc, alloy . . . 6, 338
- „ and Gold, alloy . . . 6, 339
- „ and Iridium, alloys . . . 6, 333
- „ and Iron, alloy . . . 6, 336
- „ „ carbide . . . 6, 336
- „ and Lead, alloy . . . 6, 335
- „ and Molybdenum, alloy . . . 6, 331
- „ and Nickel, alloy . . . 6, 337
- „ and Palladium, alloy . . . 6, 358
- „ and Potassium, alloy . . . 6, 320
- „ „ sulphide . . . 6, 321
- „ and Silver, alloy . . . 6, 339
- „ and Sodium, alloy . . . 6, 323
- „ and Tin, alloy . . . 6, 335
- „ and Tungsten, alloy . . . 6, 331
- „ and Vanadium, alloy . . . 6, 331
- „ and Zinc, alloy . . . 6, 333
- Platosamine . . . 6, 313
- „ hydrochlorate, green . . . 6, 304
- „ „ red . . . 6, 303
- „ „ yellow . . . 6, 302
- „ hydrocyanate . . . 8, 45
- „ nitrate . . . 6, 311
- Platosammonium, cyanide . . . 8, 45
- Platosopyridine . . . 10, 407
- Playfair and Joule's experiments on the expansion of solid bodies by heat . . . 1, 233
- „ and Joule's investigations on atomic volume and density . . . 1, 83
- Plinius' Chrysocolla . . . 3, 87
- Plombgonne . . . 5, 165
- Plumbagin . . . 18, 238

Plumbate of Potash . .	5, 160	Poonahite	3, 448
„ Soda	5, 162	Poplar-bark, preparation of Sali-	
Plumbethyls	9, 106, 13, 510	can from	15, 432
Plumbic Biethyl	13, 510	„ -buds, oil of	14, 392
Plumbides of Ethyl . . .	9, 106	„ -buds, peculiar body from . .	15, 444
Plumbite of Ammonia . .	5, 158	„ -buds, resins of	17, 451
Baryta	5, 163	Poppy-oil	16, 312
Lime	5, 164	„ wax from capsules of blue-	
Nickel-oxide	5, 394	. . . . .	18, 162
Potash	5, 160	Populn	15, 347, 441
Soda	5, 162	„ conversion of, into Sali-	
Plumbo-calcite	5, 164	can	15, 431
„ -chromic Oxalate . . .	9, 156	Porcelain clays	3, 416
<i>Plumbum</i>	5, 105	„ Reaumur's	3, 384
<i>Plumbum corneum</i> . . .	5, 145	„ spar	3, 461
Plum-kernels, oil of . . .	17, 98	Porla spring, Apocrenic acid in .	17, 469
Podophyllin	17, 451	„ Crenic acid in	17, 466
Pohl's battery	1, 408	Porphyric acid	17, 183
Point of saturation . . .	1, 39	Porphyrene	18, 191
Polar conductors or wires of vol-		Porphyroxine	16, 442
taic battery	1, 431	Porpoise oil	16, 323
Polarity, crystalline, of bismuth		Portugal Laurel oil	12, 29
and other bodies	1, 517	Potash	3, 10
Polarisation, circular, in organic		„ Acetates	8, 297
liquids	7, 64	„ Acomitates	11, 405
„ electrical	1, 473	„ Aescinate	18, 37
„ of light	1, 164	„ -albite	3, 443
„ rotation of the plane		„ Albuminate	18, 303
of, by magnetic or		„ Aloetate	12, 11
electric influence . .	1, 168	„ Alcoholic, action of, on	
Poliene	9, 484	chlorine-compounds . .	13, 421
Poling of copper	5, 399	„ Alloxanate	10, 162
Pollux and Castor	3, 448	„ -alum	3, 321
<i>Polyanthes tuberosa</i> , emission of		„ -alum with Ammonia-	
light by the flowers of . .	1, 187	alum	3, 323
Polyargite	3, 448	„ Aluminat	3, 320
Polybasic acids, glycerides of . .	13, 580	„ Amylomaltate	11, 80
„ organic acids	7, 200	„ Amylophosphate	11, 51
„ Phosphate of Ferric		„ Amylosulphate	11, 56
oxide	5, 225	„ Amylosulphite	11, 53
Polybasite	6, 189	„ Amylotartrate	11, 81
Polychroite, <i>see</i> Crocin.		„ Amyl xalate	11, 73
Polychromatic acid	12, 1	„ Amyloxanthate	11, 61
Polychrome, <i>see</i> Aesculin.		„ Anacardate	17, 521
Polygalin, <i>see</i> Senegin		„ Anchoate	13, 375
Polymeric Isomorphism . .	1, 93	„ Angelate	10, 415
Polymerism	1, 109	„ Anisate	13, 126, 584
„ in organic com-		„ Antimoniate	4, 376
pounds	7, 67	„ Antimoniate, with Sulph-	
Polymignite	3, 487	antimonate of Potas-	
Polyselenide of Calcium . .	3, 203	sium	4, 381
Polyspherite	5, 150	„ Antimonite	4, 375
Polythionic acids	2, 168	„ Apocrenate	17, 470
<i>Pompholyx</i>	5, 10	„ Arabate	15, 202
Ponderable substances, undecom-		„ Arachidate	17, 371
posed, division of, into metals		„ Argentate	6, 178
and metalloids	2, 1	„ Arseniates	4, 291
<i>Pongamia glabra</i> , oil of the seeds		„ Arsenite	
of	17, 98	„ with Asparagine	10, 246

Potash, Aspartate . . .	10, 234	Potash, Cetylene-sulphate	16, 371
„ Aurate . . .	6, 226	„ Cetyl-xanthate ...	16, 372
„ Aurate with Chloride of Potassium ..	6, 230	„ Chelidonate	12, 416
„ Aurite . . .	6, 226	„ Chloranilate . . .	11, 191
„ Aurosulphite . . .	6, 227	„ Chlorate ..	3, 58
„ Azelaate ...	17, 81	„ Chloride .. 2, 301, 3,	57
„ Benzilate . . .	12, 183	„ Chlorisate ..	13, 75
„ Benzoate . . .	12, 38	„ Chlorite ...	3, 57
„ Benzoglycolate ..	12, 66	„ Chlorobenzoate .	12, 114
„ Biacetate . . .	8, 299	„ Chlorocinnamate .	13, 296
„ Biacetate, anhydrous ..	8, 337	„ Chlorosalicylate .	12, 295
„ Bichlorisate . . .	13, 71	„ Chlorosulphosomethylate	7, 301
„ Bichlorisate ...	13, 80	„ Cholate	18, 49
„ Bichlorosalicylate .	12, 298	„ Chromates . . .	4, 144
„ Bichlorosulphosomethylate	7, 303	„ Chromate with cyanide of mercury . . .	8, 23
„ Bichromate . . .	4, 147	„ Chromate with sulphate of potash ..	4, 150
„ Bichromate with Nitrate of Potash ...	4, 151	„ Chrome-alum	4, 148
„ Bichromate with Prochloride of Mercury	6, 115	„ Chromite . . .	4, 144
„ Biniodate with Chloride of Potassium . .	3, 72	„ Chrysammate ..	12, 3
„ Bimtrocarbolate . .	11, 207	„ Chrysanilate . . .	12, 331
„ Bimtrophloietate ...	13, 333	„ Chrysanisate ..	12, 303
„ Bimtrosalicylate	12, 315	„ Chrysophanate ..	16, 175
„ Bismuthate . . .	4, 445	„ Cimicate . . .	16, 234
„ Bisulphate . . .	3, 40	„ Cinnamate . . .	13, 274
„ Bisulphate with Biniodate of Potash	3, 71	„ Citraconate	10, 420
„ Bisulphite . . .	3, 38	„ Citrates . . .	11, 446
„ Bisulphite, compound of, with Anisylous acid ..	13, 122	„ Cobaltite . . .	5, 343
„ Bisulphite, compound of, with Bitter Almond oil	12, 27	„ Comenate	11, 335
„ Bisulphite, compound of, with Cummul . . .	14, 147	„ Convolvulate ..	16, 157
„ Bisulphite, compound of, with Rue oil . . .	14, 492	„ Crenate ...	17, 467
„ Bisulphite, compound of, with Salicylous acid ..	12, 241	„ Croconate . . .	10, 390
„ Bisulphohydrokinonate	16, 241	„ crude	3, 14
„ Bisulphometholate	12, 484	„ crystallised ..	3, 14
„ Borates . . .	3, 25	„ Cuminate ..	14, 150
„ Bromacetate . . .	12, 533	„ with Cupric oxide ..	5, 457
„ Bromate ...	3, 54	„ with Cuprous oxide ..	5, 458
„ Butyrate . . .	10, 554	„ Cyanate . . .	8, 65
„ Butyrate . . .	10, 84	„ Cyanurate ..	9, 452
„ Cacodylate . . .	9, 330	„ Dialurate . . .	10, 158
„ Camphorate . . .	14, 459	„ Diluturate	10, 182
„ Caproate . . .	11, 416	„ Elaidate	17, 77
„ Carbohydrokinovate	16, 238	„ Ellagate . . .	16, 187
„ Carbolate . . .	11, 151	„ Ethionate	8, 433
„ Carbonates . . .	3, 18	„ Ethylophosphate ...	8, 400
„ Carbonate with fluoride of calcium	3, 215	„ Ethylosulphite ..	8, 408
„ Carbonate with chloride of potassium ...	3, 71	„ Eugenate . . .	14, 205
		„ Euxanthate ..	17, 534
		„ Evernate . . .	16, 444
		„ Everninate ...	16, 446
		„ Evernitrate ...	16, 448
		„ -felspar . . .	3, 441
		„ Ferrate	5, 265
		„ Ferrite ...	5, 265
		„ Formiate	7, 276
		„ Formiate with cyanide of mercury	8, 26
		„ Frémy's Metastannate of	3, 96

Potash, Fulminurate . . .	10, 558	Potash, Mannitate . . .	15, 382
„ Fumarate . . .	10, 26	„ Meconate . . .	12, 427
„ Gallate . . .	12, 405	„ Mellitate . . .	10, 5
„ Gambodate . . .	17, 417	„ Metaconate . . .	10, 429
„ Gentianates . . .	13, 179	„ Metaphosphate . . .	3, 30
„ -glass	3, 372	„ Metatartrate . . .	10, 328
„ Glaucomelanate . . .	15, 25	„ Methylsalicylate . . .	12, 257
„ with Glucina . . .	3, 300	„ Molybdate . . .	4, 69
„ Glycerate . . .	13, 570	„ Monochloracetate . . .	12, 539
„ Glycocholate . . .	18, 59	„ Monochromate with pro-	
„ Glyoxylate . . .	12, 507	tochloride of mercury . . .	6, 115
„ Guaiaretate . . .	17, 243	„ Mucate . . .	11, 505
„ Gurgunat . . .	17, 546	„ Myristate . . .	16, 212
„ -harmotome . . .	3, 446	„ Myronate . . .	15, 346, 418
„ -haayne . . .	3, 457	„ Naphthionate . . .	14, 112
„ Hemipinate . . .	14, 431	„ Narcotinate . . .	16, 148
„ Hippurate . . .	12, 76	„ Niccolate . . .	5, 384
„ Hydrate . . .	3, 11	„ Niobate . . .	4, 18
„ Hydrate, electrolysis of	1, 458	„ Nitramate . . .	13, 138, 585
„ Hydriodate . . .	3, 50	„ Nitrate . . .	3, 68
„ Hydriodite . . .	3, 50	„ „ with acid melli-	
„ Hydrochlorate with		tate of potash . . .	10, 6
Stannite of Potash . . .	5, 98	„ Nitrate with bichro-	
„ Hydropiperate . . .	15, 12	mate of potash . . .	4, 151
„ Hyoglycocholate . . .	18, 104	„ Nitrate with sulpho-	
„ Hyperoxymuriate . . .	3, 58	tungstate of potash . . .	4, 40
„ Hypobromite . . .	3, 54	„ -nitre . . .	3, 68
„ Hypochlorate . . .	3, 58	„ Nitrite . . .	3, 67
„ Hypochlorite . . .	3, 57	„ Nitrobenzoate . . .	12, 124
„ Hypophosphite . . .	3, 27	„ Nitrobichlorocarbonate . . .	11, 210
„ Hyposulphate . . .	3, 39	„ Nitrocinnamate . . .	13, 301
„ Hyposulphite . . .	3, 36	„ Nitrococussate . . .	13, 27
„ Hyposulphite with cya-		„ Nitrohippurate . . .	12, 130
nide of mercury . . .	8, 19	„ Nitrosalicylate . . .	12, 308
„ Hypovanadate . . .	4, 99	„ Nitrosopelargonate . . .	13, 372
„ Inosate . . .	11, 120	„ Nitrotoluylate . . .	13, 22
„ Insolinate . . .	13, 320	„ Nitroxybenzoate . . .	12, 313
„ Iodate . . .	3, 51	„ Oenanthate . . .	12, 456
„ Iodite . . .	3, 50	„ Oenanthylate . . .	12, 453
„ with Iridium-oxides . . .	6, 383	„ Oleate . . .	17, 69
„ Iron-alum . . .	5, 270	„ Osmiamate . . .	6, 419
„ Isamate . . .	13, 110	„ with Osmium-oxides . . .	6, 417
„ Isatate . . .	13, 55	„ Oxalates . . .	9, 125
„ Isatosulphite . . .	13, 57	„ Oxamate . . .	13, 536
„ Isethionate . . .	8, 430	„ Palmitate . . .	16, 360
„ Isobiglycolethyleneate . . .	15, 234	„ Pectate . . .	15, 406
„ Isotartarate . . .	10, 332	„ Pelargonate . . .	13, 370
„ Itaconate . . .	10, 426	„ Pelopiate . . .	4, 23
„ Jalapinolale . . .	16, 402	„ Pentathionate . . .	3, 37
„ Kinat . . .	16, 227	„ Perchlorate . . .	3, 62
„ Kinovate . . .	18, 25	„ Periodate . . .	3, 53
„ Lactates . . .	11, 481	„ Permanganate . . .	4, 235
„ Lichenate . . .	16, 196	„ Picramate . . .	11, 244
„ with Magnesia ? . . .	3, 249	„ Picrate . . .	11, 220
„ Malate . . .	10, 214	„ Piperate . . .	15, 9
„ Maleate . . .	8, 154	„ Phloretate . . .	13, 310
„ Mandelate . . .	12, 58	„ Phosphates . . .	3, 28
„ Manganate . . .	4, 233	„ Phosphite . . .	3, 28
„ -manganese-alum . . .	4, 238	„ Phthalate . . .	13, 12

Potash, Platinate . . .	6, 320	Potash, Sulphosuccinate . .	10, 130
„ Platinite	6, 320	„ Sulphotoluate	12, 231
„ Plumbate	5, 160	„ Sulphotungstate with	
„ Plumbite	5, 160	Nitrate of Potash ..	4, 40
„ Propionate 9, 405 ;	10, 553	„ Sulphovinate . . .	8, 420
„ Purpurate	10, 197	„ Sulphoxarsenate . .	4, 294
„ Pyrogallate .. .	11, 401	„ Sylvate	17, 320
„ Pyromucate	10, 385	„ Tannates	15, 464
„ Pyrophosphates ..	3, 29	„ Tantalate . . .	4, 9
„ Pyrotartrate .. .	11, 81	„ Tartrates	10, 275
„ Racemate . . .	10, 350	„ Taitrelate . . .	10, 334
„ Racemomethylate ..	10, 362	„ Tartromethylate ..	10, 338
„ Racemovinate . .	10, 364	„ Tartrovinate . . .	10, 341
„ Rhodiate	6, 365	„ Taurochenocholate .	18, 132
„ Rhodioso-rhodiate	6, 365	„ Taurocholate	18, 67
„ Rhodizonate .. .	10, 401	„ Tellurates . . .	4, 417
„ Ricinelandate . .	17, 136	„ Tellurite . . .	4, 416
„ Roccellate .. .	16, 476	„ Terbasic Phosphate .	3, 28
„ Rubiacate . . .	16, 52	„ Terchloracetate . .	9, 212
„ Rubianate	16, 40	„ Terchlorosulphosomethyl-	
„ Rutheniate	6, 401	ate	7, 352
„ Saccharates . . .	11, 517	„ Tetrathionate . . .	3, 37
„ Salicylate . . .	12, 250	„ Titanates	3, 484
„ Salicylite . . .	12, 240	„ Titanate and Silicate .	3, 487
„ -salts, general properties		„ Thiacetate . . .	13, 448
of	3, 16	„ Thionaphthamate .	14, 116
„ Santalate	16, 260	„ Thiotolamate	12, 344
„ Sebate . . .	14, 497	„ Toluylate . . .	13, 9
„ Seleniate .. .	3, 45	„ Trithionate . . .	3, 37
„ Selenite . . .	3, 44	„ Tungstate . . .	4, 38
„ Silicates	3, 369	„ Tungstate with Fluoride	
„ Silicate with silicate of		of Tungsten and	
alumina	3, 420	Potassium	4, 46
„ Sinapate . . *	14, 521	„ Tungstate with Sul-	
„ solution of . . .	3, 14	photungstate of Potas-	
„ -soaps	17, 70, 108	sium . . .	4, 46
„ Stannates . . .	5, 95	„ Uranate . . .	4, 186
„ Stannite	5, 95	„ Urate	10, 468
„ Stearate	17, 108	„ Uroxanate . . .	10, 479
„ Stilbite . . .	12, 180	„ Usnate . . .	17, 50
„ Styphnate . . .	11, 232	„ Valerate . . .	11, 31
„ Suberate . . .	13, 208	„ Vanadates . . .	4, 99
„ Succinate . . .	10, 116	„ Vanadite	4, 98
„ Sulphacetate . .	3, 437	„ Vulpate	17, 150
„ Sulphates	3, 39	„ Xanthate	8, 452
„ Sulphate with Chloride		„ Zincate . . .	5, 43
of Potassium . .	3, 721	„ with Zirconia	3, 347
„ Sulphate with Chro-		„ and Alumina carbonate...	3, 321
mate of Potash .	4, 150	„ and Alumina, oxalate	9, 135
„ Sulphindigotate .	13, 62	„ and Alumina, sulphate...	3, 321
„ Sulphite . . .	3, 38	„ and Alumina, tartrate ..	10, 292
„ Sulphobenzoate .	12, 54	„ and Ammonia, citrate .	11, 446
„ Sulphocamphorate	13, 379	„ and Ammonia, oxalate ?	9, 126
„ Sulphocaprylate ..	13, 197	„ and Ammonia, pyrophos-	
„ Sulphocinnamate ..	13, 279	phate	3, 71
„ Sulphomethylate ..	7, 306	„ and Ammonia, racemate	10, 350
„ Sulphophoenicate .	13, 97	„ and Ammonia, sulphate	3, 71
„ Sulphosalicylate .	12, 276, 277	„ and Ammonia, tartrate ..	10, 280
„ Sulphosomethylate	7, 299	„ and Ammonia, tungstate	4, 40

Potash with Antimonic oxide ...	4, 375	Potash and Glucina, sulphate	3, 301
„ and Arsenic acid, tartrate	10, 296	„ and Iridious oxide, sulphite . . .	6, 384
„ and Arsenious acid, oxalate . . .	13, 521	„ and Lanthanum, sulphate . . .	3, 279
„ and Arsenious acid, racemate . . .	10, 356	„ and Lead-oxide, hyposulphite	5, 160
„ and Arsenious acid, tartrate . . .	10, 296	„ and Lead-oxide, sulphate	5, 161
„ and Baryta, carbonate . . .	3, 164	„ and Lime, chelidonate . . .	12, 418
„ and Baryta, nitrate . . .	3, 164	„ and Lime, chromate . . .	4, 154
„ and Baryta, silicate . . .	3, 388	„ and Lime, lactate . . .	11, 484
„ and Baryta, tartrate . . .	10, 286	„ and Lime, malate . . .	10, 219
„ and Bismuth-oxide, bis-muthate . . .	4, 445	„ and Lime, phosphate . . .	3, 215
„ and Boracic acid, racemate . . .	10, 350	„ and Lime, silicate . . .	3, 393
„ and Boracic acid, tartrate . . .	10, 278	„ and Lime, sulphate . . .	3, 215
„ and Borax, tartrate . . .	10, 283	„ and Lime, tartrate . . .	10, 289
„ and Cadmic oxide, sulphate . . .	5, 63	„ and Lithia, tartrate . . .	10, 285
„ and Caprylic aldehyde, sulphite . . .	13, 188	„ and Magnesia, borate . . .	3, 249
„ and Ceric oxide, carbonate . . .	3, 272	„ and Magnesia, carbonate . . .	3, 249
„ and Ceric oxide, sulphate . . .	3, 273	„ and Magnesia, chromate . . .	4, 154
„ and Cerous oxide, carbonate . . .	3, 272	„ and Magnesia, hyposulphite . . .	3, 249
„ and Cerous oxide, sulphate . . .	3, 272	„ and Magnesia, succinate . . .	10, 122
„ and Chromic oxide, carbonate . . .	4, 147	„ and Magnesia, sulphate . . .	3, 250
„ and Chromic oxide, pyrophosphate . . .	4, 147	„ and Magnesia, tartrate . . .	10, 291
„ and Chromic oxide, sulphate . . .	4, 147	„ and Manganic oxide, sulphate . . .	4, 238
„ and Chromous oxide, sulphate . . .	4, 147	„ and Manganous oxide, sulphate . . .	4, 238
„ and Cobalt-oxide, carbonate . . .	5, 343	„ and Mercuric oxide, sulphate . . .	6, 99
„ and Cobalt-oxide, sulphate . . .	5, 344	„ and Mercurous oxide, hyposulphite . . .	6, 98
„ and Cupric oxide, carbonate . . .	5, 458	„ and Molybdic acid, tartrate . . .	10, 293
„ and Cupric oxide, seleniate . . .	5, 460	„ and Molybdic oxide, carbonate . . .	4, 70
„ and Cupric oxide, sulphate . . .	5, 459	„ and Molybdic oxide, hydrofluorate . . .	4, 72
„ and Cuprous oxide, hyposulphite . . .	5, 458	„ and Molybdic oxide, sulphate . . .	4, 72
„ and Cuprous oxide, sulphite . . .	5, 459	„ and Molybdous oxide, hydrochlorate . . .	4, 72
„ and Ferric oxide, carbonate . . .	5, 268	„ and Molybdous oxide, hydrofluorate . . .	4, 72
„ and Ferric oxide, sulphate . . .	5, 268	„ and Nickel-oxide, sulphate . . .	5, 384
„ and Ferrous oxide, sulphate . . .	5, 268	„ Nickel oxide, and Cupric oxide, sulphate . . .	5, 497
„ and Glucina, carbonate . . .	3, 301	„ and Nitric oxide, sulphite . . .	3, 70
		„ and Osmious oxide, sulphite . . .	6, 417
		„ and Palladious oxide, nitrite . . .	6, 355
		„ and Palladious oxide, sulphate . . .	6, 353
		„ and Platonic oxide, nitrate . . .	6, 323

Potash and Platinic oxide, sulphate ...	6, 321	Potash and Uranic oxide, acetate	8, 307
„ and Platinous oxide, sulphate ?	6, 321	„ and Uranic oxide, carbonate	4, 187
„ and Platinous oxide, sulphite . . .	6, 321	„ and Uranic oxide, sulphate	4, 188
„ and Quinidine, tartrate	17, 302	„ and Uranoso-uranic oxide, sulphate . . .	4, 188
„ and Quinine, tartrate	17, 291	„ and Uranous oxide, sulphate	4, 187
„ and Rhodic oxide, sulphate	6, 368	„ and Vanadic acid, sulphate	4, 100
„ and Ruthenous oxide, sulphite	6, 402	„ and Vanadic oxide, carbonate	4, 100
„ and Silica, carbonate	3, 373	„ and Vanadic oxide, sulphate	4, 100
„ and Silver-oxide, carbonate	6, 178	„ and Yttria, carbonate . .	3, 290
„ and Silver-oxide, hyposulphite	6, 178	„ and Yttria, oxalate . . .	9, 135
„ and Silver-oxide, nitrate	6, 179	„ and Yttria, sulphate . .	3, 290
„ and Silver-oxide, sulphate	6, 178	„ and Zinc-oxide, carbonate	5, 43
„ and Silver-oxide, sulphite . .	6, 178	„ and Zinc-oxide, chromate	5, 48
„ and Soda, action of, on organic compounds	13, 385	„ and Zinc-oxide, molybdate	5, 48
„ and Soda, antitartarate	10, 367	„ and Zinc-oxide, silicate	5, 47
„ and Soda, arseniate	4, 299	„ and Zinc-oxide, sulphate	5, 43
„ and Soda, carbonate	3, 119	„ Zinc-oxide, and Cupric oxide, sulphate . .	5, 481
„ and Soda, chromate	4, 152	„ and Zirconia, carbonate	3, 347
„ and Soda, insolinate . .	13, 320	„ and Zirconia, silicate . .	3, 463
„ and Soda, maleate ?	8, 155	„ and Zirconia, sulphate	3, 347
„ and Soda, metatartarate	10, 328	Potassio-antimonic Antitartarate	10, 368
„ and Soda, nitrate . . .	3, 120	„ -antimonic Citrate . . .	11, 453
„ and Soda, oxalate ?	9, 127	„ -antimonic Oxalate	9, 149; 13, 523
„ and Soda, phosphate . . .	3, 119	„ -antimonic Racemate . .	10, 356
„ and Soda, pyrophosphate	3, 120	„ -antimonic Tartrate . .	10, 299
„ and Soda, racemate . . .	10, 351	„ -bismuthic Tartrate . .	10, 310
„ and Soda, sulphate . . .	3, 120	„ -cerous Oxalate . .	9, 184
„ and Soda, sulphochromate . .	4, 152	„ -chromic Mucate . . .	11, 507
„ and Soda, sulphosalicylate . . .	12, 278	„ -chromic Oxalate . . .	9, 138
„ and Soda, tartrate . .	10, 282	„ -chromic Tartrates . .	10, 294
„ Soda, and Boracic acid, racemate . .	10, 352	„ -cobaltoso-cobaltic Oxalate . . .	9, 163
„ and Strontia, silicate . .	3, 388	„ -cobaltous Oxalate . . .	10, 534
„ and Strontia, tartrate . .	10, 287	„ -cobaltous Oxalate, basic	9, 163
„ and Tantallic acid, sulphate . . .	4, 9	„ -cupric Ferrocyanide . .	12, 498
„ and Thorina, carbonate	3, 335	„ -cupric Oxalate	9, 166; 10, 535
„ and Thorina, nitrate . .	3, 336	„ -cupric Racemate . . .	10, 359
„ and Thorina, oxalate . .	9, 136	„ -cupric Tartrate . . .	10, 321
„ and Thorina, sulphate	3, 335	„ -cuprous Ferrocyanide . .	12, 497
„ and Thorina, tartrate . .	10, 292	„ -ferric Oxalate . . .	9, 158
„ and Titanic oxide, carbonate . . .	3, 485	„ -ferric Racemate . . .	10, 358
„ and Titanic oxide, sulphate . . .	3, 485	„ -ferric Tartrate . . .	10, 316
„ and Tungstous oxide, tungstate . . .	4, 45	„ -ferrous Oxalate . . .	13, 527
		„ -ferrous Tartrate . . .	10, 316
		„ -manganic oxalate	9, 147; 13, 521

Potassio-manganous Oxalate	9, 147, 13, 521	hyposulphate of	
„ -manganous Tartrate .	10, 296	Iridious oxide ...	6, 389
„ -mercuric Oxalate ?		Potassium, Chloride, chromate of	4, 150
„	9, 169, 13, 328	„ Chloride, sulphate of	3, 63
„ -mercurous and Potassio-		„ Chloride with Cyanide of Mercury .	8, 20
mercuric Tartrates .	10, 324	„ Chloride and Sulphate of Potash, with Chloro-hyposulphate of Iridious oxide ...	3, 390
„ -molybdic Tartrate ..	10, 293	„ Chloride with Ethylchloride of Platinum ..	8, 391
„ -molybdous Tartrate ...	10, 293	„ Chloride with Sulphite of Iridious oxide ..	6, 388
„ -plumbic Oxalate ..	9, 156	„ Chloride with Sulphate of potash ..	3, 71
„ -silver Oxalate. .	9, 169	„ Chlorirridate ...	6, 386
„ -stannous Oxalate		„ Chlorisatide	13, 74
„	9, 154; 10, 531	„ Chloroaurate ...	6, 229
„ -stannous Tartrate	10, 311	„ Chloroaurite	6, 229
„ -tantallic Tartrate	10, 292	„ Chloroioidite ..	3, 64
„ -telluric Tartrate	10, 309	„ Chloropalladiate .	6, 354
„ -uramic Oxalate .	9, 145	„ Chloropalladite .	6, 354
„ -uranous Oxalate ..	9, 145	„ Chloroplatinate ..	6, 322
„ -uranous Tartrate .	10, 296	„ Chloroplatinite .	6, 322
„ -vanadic Tartrate	10, 293	„ Chlororhodate .	6, 366
Potassium .	3, 3	„ Chlorosmiatite ..	6, 418
„ action of, on organic compounds	7, 145	„ Chlorostannate ..	5, 97
„ alloys of ...	3, 72	„ Chlorostannite .	5, 97
„ amalgam of ...	6, 97	„ Chlorotellurate	4, 420
„ Amide ..	3, 67	„ Chromidcyanide ...	7, 420
„ Antimonide. .	4, 374	„ Cobaltidcyanide .	7, 494
„ Argentocyanide ..	8, 29	„ Cuprocyanide ...	8, 4
„ arseniate of Iodide of .	4, 294	„ Cuproferrocyanide	13, 409
„ Arsenide .	4, 290	„ Cyanide ...	7, 411
„ Auridcyanide ..	8, 41	„ -ethyl ...	13, 491
„ Auroidcyanide .	8, 38	„ Ferrocyanide or Ferriidcyanide	7, 468
„ Aurosulphide .	6, 227	„ Ferrocyanide 7, 453; 13, 408	
„ Bismuthide ..	4, 445	„ Ferrocyanide, decomposition of, by strong sulphuric acid .	12, 495
„ Boride .	3, 25	„ Ferrocyanide with Cyanide of Mercury .	8, 25
„ Boro-nitride .	3, 70	„ Fluoboride	3, 65
„ Bromide .	3, 53	„ Fluopalladite .	6, 354
„ Bromide with Cyanide of mercury ..	8, 20	„ Fluoplatinate .	6, 323
„ Bromo-aurate ..	6, 228	„ Fluoride .	3, 64
„ Bromopalladite .	6, 353	„ Fluoride with Sesquifluoride of Chromium ...	4, 151
„ Bromoplatinate ..	6, 322	„ formation of organic compounds in the preparation of, from charcoal and carbonate of potash	7, 41
„ Bromotellurate .	4, 420		
„ Carbide .	3, 17		
„ Carboxide .	10, 395		
„ Chloride .	3, 56		
„ Chloride with Aurate of Potash .	6, 230		
„ Chloride with Bicyanide of Platinum	8, 51		
„ Chloride with Binitrate of Potash ..	3, 72		
„ Chloride with Bisulphite of Osmious oxide ..	6, 419		
„ Chloride with Carbonate of Potash .	3, 71		
„ Chloride with Chloro-			

Potassium, humous substance formed in the prepa- ration of, by heating carbonate of potash with charcoal . . . 17, 461	Potassium, Sulpharsemate . . . 4, 293
Hydride . . . 3, 17	" Sulpharsenate . . . 4, 293
Hydrothiosulphocya- nide . . . 8, 100	" Sulpharsenite with ex- cess of acid . . . 4, 293
Hyposulpharsenite . . . 4, 292	" Sulphides . . . 3, 30
Iodide . . . 3, 45	" Sulphide with Mus- tard-oil . . . 10, 49
Iodide with Cyanide of Mercury . . . 8, 19	" Sulphocyanide . . . 8, 78
Iodo-aurate . . . 6, 228	" Sulphocyanide with Cyanide of Mercury . . . 8, 96
Iodomercurate . . . 16, 433	" Sulphomolybdate . . . 4, 70
Iodopalladite . . . 6, 353	" Sulphomolybdate with Nitrate . . . 4, 73
Iodoplatinate . . . 6, 321	" Sulphophosphide . . . 3, 43
Iodostannite . . . 5, 97	" Sulphorhodate . . . 6, 365
Iodotellurate . . . 4, 420	" Sulphosnapate . . . 10, 34
Iridiocyanide . . . 8, 60	" Sulphotellurite . . . 4, 420
Isatide . . . 13, 53	" Sulphotungstate . . . 4, 40
literature and history of . . . 3, 3	" Sulphotungstate with Tungstate of Potash . . . 4, 46
Manganidcyanide . . . 7, 421	" Sulphovanadate . . . 4, 100
Manganocyanide . . . 7, 421	" Sulphovanadite . . . 4, 100
Mellonide 9, 388; 10, 346	" Sulphydiate . . . 3, 31
Mercaptide . . . 8, 344	" Tellurides . . . 4, 416
Nickel Oxalate 9, 164, 10, 534	" Tellurocyanide ? . . . 8, 125
Nitride . . . 3, 66	" Thiocyanide . . . 8, 114
Nitroprusside . . . 8, 130	" and Aluminum, chlo- ride . . . 3, 323
olive-coloured com- pound of . . . 3, 67	" and Aluminum, fluo- ride . . . 3, 324
Oxides . . . 3, 9	" and Ammonium, fer- rocyanide . . . 10, 503; 12, 496
Oxyxanthate . . . 8, 461	" and Antimony, arse- nite . . . 4, 392
Palladiocyanide . . . 8, 59	" and Antimony, chlo- ride . . . 4, 381
Perbromide . . . 3, 54	" and Barium, ferricya- nide . . . 7, 481
Peroxide . . . 3, 16	" and Barium, ferrocya- nide . . . 7, 481
Phosphide . . . 3, 26	" and Barium, sulphide . . . 3, 164
Platinidcyanide . . . 8, 49	" and Bismuth, chloride . . . 4, 447
Platinocyanide 8, 47, 10, 507	" and Bismuth, iodide . . . 4, 447
Platino-platinidcyanide 8, 48	" and Bismuth, oxalate . . . 13, 524
Platinosquencyanide 12, 499	" and Cadmium, bro- mide . . . 5, 64
properties . . . 3, 9	" and Cadmium, chlo- ride . . . 5, 64
Protoxide . . . 3, 10	" and Cadmium, cya- nide . . . 7, 426
-salt of Pseudosulpho- cyanogen . . . 8, 112	" and Cadmium, iodide . . . 5, 64
-salts, solubility of, in alcohol . . . 8, 265	" and Cadmium, oxalate . . . 13, 526
Selenide . . . 3, 43	" and Calcium, ferrocya- nide . . . 7, 484
Selenocyanide . . . 8, 122	" and Carbon, sulphide . . . 3, 42
Silicide . . . 3, 369	" and Chromium, sul- phide . . . 4, 147
Silico-fluoride . . . 3, 374	" and Cobalt, fluoride . . . 5, 344
sources and prepara- tion . . . 3, 4	
Suboxide . . . 3, 9	
Sulphantimoniate . . . 4, 380	
Sulphantimoniate with Antimoniate of Potash . . . 4, 381	
Sulphantimonite . . . 4, 378	

Potassium and Cobalt, racemate	10, 358	Potassium and Magnesium, hy-	
„ and Copper, alloy ..	5, 456	„ drated chloride ..	3, 250
„ and Copper, antimo-		„ and Manganese, fer-	
„ nide ..	5, 476	„ rocyanide ..	7, 186
„ and Copper, dichlo-		„ and Manganese, fluo-	
„ ride ..	5, 460	„ ride ..	4, 238
„ and Copper, diiodide	5, 460	„ and Manganese, sul-	
„ and Copper, ferrocya-		„ phide ..	4, 237
„ nide ..	8, 10	„ and Mercury, bromide	6, 101
„ and Copper, fluoride	5, 461	„ and Mercury, cyanide	8, 18
„ and Copper, fulminate	9, 300	„ and Mercury, iodide	6, 99
„ and Iridium, proto-		„ and Mercury, sulphide	
„ chloride ..	6, 385	„ (hydrated)	6, 98
„ and Iridium, sesqui-		„ and Mercury, sulpho-	
„ chloride ..	6, 385	„ cyanide ..	8, 95
„ and Iridium, sulphide	6, 384	„ and Nickel, cyanide ..	7, 498
„ and Iridium, tetrachlo-		„ and Nickel, fluoride	5, 385
„ ride ..	6, 387	„ and Osmium, bichlo-	
„ and Iron, alloy ..	5, 264	„ ride ..	6, 418
„ and Iron, antimonide	5, 312	„ and Osmium, proto-	
„ and Iron, bismuthide	5, 312	„ chloride ..	6, 418
„ and Iron, boride ..	5, 268	„ and Osmium, sesqui-	
„ and Iron, ferricyanide	7, 477	„ chloride ..	6, 418
„ and Iron, ferrocya-		„ and Palladium, mell-	
„ nide ..	7, 474	„ tate ..	10, 13
„ and Iron, protochlo-		„ and Platinum, alloy	6, 320
„ ride ..	5, 271	„ and Platinum, sul-	
„ and Iron, protofluoride	5, 271	„ phide ..	6, 321
„ and Copper, protochlo-		„ Ruthenium, sesqui-	
„ ride ..	5, 460	„ chloride ..	6, 403
„ and Copper, saheylate	12, 254	„ and Silicon, fluoride	3, 374
„ and Copper, sulphide	5, 458	„ and Silicon, nitride	3, 375
„ and Copper, styph-		„ and Silicon, sulphide	3, 375
„ nate ..	11, 235	„ and Silver, alloy ..	6, 177
„ Copper, and Mercury,		„ and Silver, chloride	6, 179
„ chloride ..	6, 181	„ and Silver, cyanurate	9, 458
„ and Glucinum, fluoride	3, 302	„ and Silver, iodide ..	6, 178
„ and Gold, alloy ..	6, 226	„ and Silver, mellitate	10, 12
„ and Gold, sulphide ..	6, 227	„ and Silver, sulphide	6, 178
„ and Hydrogen, fluo-		„ and Silver, sulphocya-	
„ ride ..	3, 65	„ nide ..	8, 97
„ and Hydrogen, sul-		„ Silver, and Antimony,	
„ phide ..	3, 31	„ alloys ..	6, 192
„ and Iodine, chloride	3, 63	„ and Sodium, alloys ..	3, 119
„ and Iridium, bichlo-		„ and Sodium, amalgam	6, 105
„ ride ..	6, 386	„ and Sodium, ferricya-	
„ and Iron, sesquichlo-		„ nide ..	7, 479
„ ride ..	5, 271	„ and Sodium, ferrocya-	
„ and Iron, sesquifluo-		„ nide ..	10, 503
„ ride ..	5, 271	„ and Sodium, sulphar-	
„ and Iron, sulphide ..	5, 268	„ senate ..	4, 299
„ and Lead, alloy ..	5, 160	„ and Tantalum, fluo-	
„ and Lead, arsenide ..	5, 174	„ ride ..	4, 10
„ and Lead, bromide ..	5, 162	„ and Thorium, bro-	
„ and Lead, tartrate ..	10, 313	„ mide ..	3, 336
„ and Magnesium, fer-		„ and Thorium, chlo-	
„ rocyanide ..	7, 486	„ ride ..	3, 336
„ and Magnesium, hy-		„ and Thorium, fluo-	
„ drated bromide ..	3, 250	„ ride ..	3, 336

- Potassium and Tin, alloy 5, 95
 „ and Titanium, fluoride 3, 485
 „ and Uranous oxide, chloride ... 4, 188
 „ and Hydrated Uranous oxide, chloride 4, 189
 „ and Vanadium, fluoride .. 4, 100
 „ and Yttrium, chloride 3, 290
 „ and Yttrium, fluoride 3, 290
 „ and Zinc, alloy .. 5, 42
 „ and Zinc, chloride . 5, 44
 „ and Zinc, cyanide . 7, 424
 „ and Zinc, fluoride . 5, 44
 „ and Zinc, iodide 5, 44
 „ and Zinc, lactate .. 11, 488
 „ and Zinc, tartrate .. 10, 311
 „ and Zirconium, fluoride . 3, 348
 Potato fat .. 6, 398
 „ fusel-oil .. 11, 9
 Potatoes, preparation of Inulin from ... 15, 112
 Potato-shoots, preparation of Solanine from ... 18, 91
 „ -starch 15, 76
Potentilla Tormentilla, Kinovic acid in the root of 18, 24
 Pourprite . 14, 480
 Powder, detonating .. 3, 70
 „ of fusion 3, 69
 Praseolite 3, 433
 Precipitate, white, fusible . 6, 87
 „ infusible .. 6, 85
 Precipitates, varieties of . 1, 135
 Precipitation, amorphous bodies produced by .. 1, 103
 „ forced 1, 135
 „ resulting from decomposition .. 1, 135
 „ spontaneous 1, 113, 135
 „ of a thin layer of one metal on the surface of another 1, 497
 Predisposing affinity, decomposition by ... 1, 124
 Preservation of vegetable and animal substances ... 7, 100
 Pressure, atmospheric ... 1, 260
 „ effect of, on the absorption of gases, by water . 2, 67
 „ effect of, on the boiling point of a liquid 1, 275
 „ influence of, on decomposition ... 1, 111
 Prehnite . 3, 428
 Priestley, his discoveries in pneumatic chemistry 1, 5
 Primary nuclei . 7, 18, 23, 153
 Primitive forms of crystals 1, 19
 Prismatic Saltpetre .. 3, 68
 Prismatic Bismuth-glance 4, 450
 „ Copper-glance . 5, 488
 Products of decomposition . 1, 111
 „ decomposition, quantity of, in the voltaic circuit 1, 479
 Prometallides 7, 25
Prone .. 11, 411
 Propæscimic acid .. 18, 38
 Prophetin .. 16, 347; 17, 365
 Propionamide .. 9, 432
 Propionate of Ammonia .. 9, 405
 „ Baryta 9, 405; 10, 554
 „ Copper 9, 407, 10, 554
 „ Ethyl 9, 409; 10, 556
 „ Lead . 10, 555
 „ Lime 9, 406; 10, 555
 „ Magnesia 10, 555
 „ Potash 9, 405, 10, 553
 „ Silver 9, 407; 10, 555
 „ Soda 9, 405; 10, 553
 „ Zinc .. 10, 555
 Propione ... 9, 409; 10, 552
 Propionic acid 9, 402; 10, 552; 13, 558
 „ Aldide ... 9, 400
 „ Ether ... 9, 409
 Propolin .. 18, 162
 Proportions in which bodies combine .. 1, 39—64
 Propyl Arsenide .. 9, 413
 „ from Boghead cannel coal 13, 386
 Propylal .. 10, 551
 Propylamine . 9, 411
 Propylene .. 9, 395; 10, 549
 „ Bacetate 13, 555
 „ Bromide 9, 397, 13, 552
 „ Chloride .. 9, 398
 „ formation of, by the action of Buiodide of Phosphorus on Glycerin .. 9, 489
 „ formation of Propylic Alcohol from 10, 550
 „ Hydrate .. 13, 554
 „ Iodide ... 9, 397
 Propyl Hydrate .. 9, 398
 Propylenyl, *see* Allyl
 Propylia .. 13, 485
 Propylic Alcohol ... 9, 398
 „ Alcohol, formation of, from Propylene .. 10, 550
 „ Aldehyde . 9, 400
 „ Glycol .. 13, 554
 Propyloxanthic acid .. 9, 399
 Protagon 18, 374

Protagon, preparation of Neurine from . . .	18, 379	Protein-chlorous acid	18, 265, 350
Proteides, coloration of blowpipe flame by ..	18, 257	Protein-compounds as ferments	7, 97
„ decomposition of, by heating with strong nitric and hydrochloric acids	18, 258	Protein-oxide ..	18, 263
„ decomposition of, by prolonged boiling with water ..	18, 257	Protein-oxides ..	18, 257
„ fermentation and putrefaction of ..	7, 97	„ -substances, derivatives of, according to Mulder	18, 263
„ formation of Urea by oxidation of .	13, 402	„ -sulphuric acid ...	18, 257
„ general observations on ...	18, 252—262	Protoxide of Calcium .	3, 205
„ Mulder's derivatives of .	18, 263	„ Gold ...	6, 211
„ oxidation of, by Binoxide of Manganese, or Bichromate of Potash and Sulphuric acid	18, 260	„ Iron ..	5, 247
„ properties and composition of .	18, 255	„ Manganese	4, 226
„ reaction of, with Iodine and Bicarbonate of Potash ..	18, 262	„ Mercury ...	6, 36
„ reaction of, with Mercury and Nitric acid (Millon's solution)	18, 262	„ Platinum ..	6, 290
„ reaction of, with Oil of Vitriol and Sugar	18, 263	„ Tellurium ..	4, 408
„ reaction of, with Potassio-cupric Tartrate .	18, 262	„ Tin . . .	5, 82
„ reactions of, with Gastric Juice, Diastase, and Pigments	18, 263	Protic acid ...	18, 335
„ reactions of, with neutral salts ...	18, 261	Proto-arsenide of Iron with Bisulphide of Iron	5, 309
„ reactions of, with the Nitrates of Mercury	18, 262	„ -arsenide of Nickel with Bisulphide of Nickel ..	5, 391
„ reactions of, with Potash .	18, 262	Protobromide of Carbon ..	7, 341
„ reaction of, with Sugar and Oil of Vitriol .	18, 262	„ Copper ...	5, 436
„ solubility of, in Gastric Juice ...	18, 263	„ Iron ..	5, 250
„ of the Vegetable Kingdom, generalities respecting ...	18, 424	„ Mercury ...	6, 42
Protein, decomposition of, by boiling with dilute Sulphuric or Hydrochloric acid ...	18, 257	„ Tellurium	4, 410
„ Mulder's, from horn	18, 350	„ Tin ..	5, 84
		Protocatechuic acid ..	16, 238
		Protochloride of Carbon	9, 215
		„ Carbon, sulphide of ...	2, 339
		„ Copper ..	5, 438
		„ Copper and Ammonium ...	5, 454
		„ Copper and Potassium ..	5, 460
		„ Gold	6, 215
		„ Iodine ..	2, 346
		„ Iridium	6, 378
		„ Iridium and Ammonium ..	6, 362
		„ Iridium and Potassium .	6, 385
		„ Iridium and Sodium ?	6, 390
		„ Iron . . .	5, 251
		„ Iron and Ammonium	5, 263
		„ Iron and Potassium ...	5, 271
		„ Mercury ..	6, 53
		„ Mercury and Ammonium .	6, 89
		„ Mercury with Bichromate of Ammonia	6, 115
		„ Mercury with Bichromate of Potash	6, 115

Protochloride of Mercury, compound of		Protosulphide of Iron	... 5, 228
Urea with	7, 373	" Mercury	... 6, 19
" Mercury with		" Methyl	... 7, 283
Monochrome of Potash..	6, 115	" Nickel	... 5, 370
" Mercury with Selenocyanide of Mercury	8, 124	" Phosphorus	... 2, 212
" Osmium and Ammonium	6, 416	" Platinum	... 6, 286
" Osmium and Mercury	6, 422	" Rhodium	... 6, 362
" Osmium and Potassium	6, 418	" Lead	... 5, 132
" Palladium	6, 349	" Tin	... 5, 78
" Phosphorus	2, 328	Protosulphides, metallic, hydrated	... 2, 225
" Osmium	6, 412	Protoxide of Cadmium	... 5, 54
" Platinum	6, 293	" Chlorine	... 2, 304
" Platinum, compounds of, with Methylamine	7, 318	" of Cobalt	... 5, 322
" Rhodium	6, 363	" Cobalt with Protoxide of Manganese	5, 347
" Ruthenium	6, 400	" Copper	... 5, 406
" Silver	6, 162	" Gold	... 6, 205
" Sulphur	2, 333	" Iridium	... 6, 371
" Sulphur, carbonate of	2, 339	" Iridium with Potash	6, 383
" Tellurium	4, 411	" Iridium with Sesquioxide of Chromium and Iron	6, 425
" Tin	5, 84	" Iron	... 5, 187
Protocyanide of Copper	8, 8	" Mercury	... 6, 8
" Gold	8, 34	" Nickel	... 5, 362
" Iron	7, 430; 13, 407	" Nitrogen	... 2, 373
" Palladium	8, 59	" Osmium	6, 406
" Platinum	10, 506	" Osmium with Potash	6, 417
Protofluoride of Copper	5, 443	" Palladium	6, 342
" Iron	5, 256	" Potassium	3, 10
" Iron and Potassium	5, 271	" Rhodium	6, 359
" Iron and Silicon	5, 288	" Silver	6, 139
" of Mercury	6, 66	" Sodium	3, 74
" Tin, hydrated....	5, 92	" Tin	5, 68
Protogenides	7, 24	Prout	1, 6
Protonitrate ammoniaco-mercuriel	6, 93, 96	<i>Prunus domestica</i> , oil from the kernels of	17, 98
Protonitrobenzoene	12, 300	Prussian Blue, A (ferrous ferricyanide)	7, 435
Protophosphide of Hydrogen	2, 135	" " with aqueous oxalic acid	9, 172
Protoselenide of Copper	5, 432	" " B (ferrie ferrocyanides, ordinary Prussian blue)	7, 437
" Silver	6, 155	" " effect of sunshine on the colour of	7, 95
Protosulphate of Iron	5, 237	" " ordinary, compound of, with ammonia	7, 445
Protosulphide of Cacodyl	9, 332	" " ordinary, decompositions of	7, 442
" Cerium	3, 267	" " ordinary, preparation of, on the large scale	7, 441
" Cobalt	5, 331	" " solution of, in	
" Copper	5, 422		
" Gold	6, 210		
" Iridium	6, 376		

aqueous oxalic acid	....	7, 446	Purreic acid, <i>see</i> Euxanthic acid.	
Prussian green	..	7, 446	Pus, formation of pyrocyanin from	.... 18, 415
Prussiate of Potash, red	..	7, 468	Putrefaction	.. 7, 104
„ Potash, yellow	..	7, 453	„ of organic substances, formation of marsh-gas by	7, 251
Prussiates	...	7, 404	Putrefying animals, phosphorescence of	.. 1, 189
Prussic acid, <i>see</i> Hydrocyanic acid.			„ plants, phosphorescence of	.. 1, 191
Prusside of Iron	..	7, 429	Pycnite	.. 3, 420
Psaturase	....	6, 190	Pyocyanin	.... 18, 415
Pseudalkannin, <i>see</i> Alkanet-red.			Pyoxanthose	.. 18, 416
Pseudoacetic acid	..	9, 414	Pyrazine	.. 18, 206
Pseudocurarine	....	17, 596	Pyrene	.. 16, 248
Pseudoerythrin	..	12, 373	Pyrethrine	.. 18, 206
Pseudomalachite	..	5, 418	Pyridine	.. 10, 406
Pseudomorphine	..	16, 441	Pyrites, arsenical	5, 304
Pseudomorphous Brown Iron-ore	..	5, 197	„ magnetic	.. 5, 230
Pseudo-oxin	..	12, 385	„ tesseral	.. 5, 349
Pseudopapaverine	..	18, 204	Pyroacetic ether	.. 9, 1
Pseudoquinone	..	17, 229	„ oil	.. 9, 25
Pseudonitrophocyanogen	..	8, 108	„ spirit	.. 9, 1
Psilomelane	..	4, 203	Pyro-acids	.. 7, 81
Psychrometer	..	1, 274	Pyrobenzoline	.. 12, 204
Pteleyl, chloride of	....	9, 19	Pyrocaphorium	.. 14, 258
„ iodide of	....	9, 19	Pyrocatechin	.. 11, 379
<i>Pteris Aquilina</i> , alkaloid obtained from	..	10, 410	„ occurrence of, in crude wood-vinegar	15, 150
Pteritannic acid	..	15, 500	Pyrochlore	.. 4, 14
<i>Pterocarpus Draco</i> , resin of	..	17, 387	Pyroclitic acid	.. 10, 417
Ptyalin	..	18, 345, 347	Pyrodextrin	.. 15, 191
Puccine	..	17, 162	Pyrogallate of Lead	.. 11, 401
Puce Lead	..	5, 120	Pyrogallates, metallic	.. 11, 401
<i>Pulegium micranthum</i> , volatile oil of	..	14, 352	Pyrogallie acid	.. 11, 398
Pulsating action exhibited by iron immersed in nitric acid	..	1, 359	„ acid, absorption of oxygen by alkaline solutions of	.. 11, 399
Pulse, aqueous extract of	..	18, 431	Pyroguanate of Lead	.. 12, 352
Pulverised bodies rendered phosphorescent by pressure	..	1, 204	Pyroguanacic acid	12, 350; 17, 252
Pumice-stone, effect of, in inducing the combination of hydrogen and oxygen	..	2, 53	Pyroguanacin	.. 12, 349; 17, 166
Purification of crystallisable substances	..	1, 14	<i>Pyrola umbellata</i> , bitter principle of	.. 18, 220
Purple of Cassius	..	6, 239	Pyroligneous acid	7, 258, 15, 149
„ Copper	..	5, 489	Pyrolytic acid	.. 14, 206
„ oxide of Gold	..	6, 206	Pyrolusite	.. 4, 205
„ snail (<i>Murex</i>), colouring matter of	..	18, 24	Pyromaric acid	.. 17, 325
<i>Purpura mineralis Cassii</i>	..	6, 239	Pyromeconates, metallic	.. 10, 441
Purpurate of Ammonia	..	10, 192	Pyromeconic acid	.. 10, 438
„ Nicotine	..	14, 232	Pyromellitic acid	.. 10, 14
Purpuric acid	..	10, 191	Pyrometers	.. 1, 235, 237
„ yellow acid formed by decomposition	..	10, 202	Pyromorphite	.. 5, 149, 174
Purpurin	..	18, 325	Pyromucamide	.. 10, 405
Purree	....	17, 530, 534	Pyromucate of Ethyl	.. 10, 386
			Pyromucates, metallic	.. 10, 385
			Pyromucic acid	.. 10, 383
			„ ether	.. 10, 386
			Pyrophorus from alum	.. 3, 322

Pyrophosphate of Alumina	3, 311	Pyroricinic acid	17, 142
„ Alumina and Soda	3, 325	Pyrosklerite	3, 421
„ Ammonia	2, 441	Pyrosmalite	5, 279
„ Aniline	11, 257	<i>Pyrosoma atlanticum</i> , phospho-	
„ Antimonic oxide	4, 337	rescence of	1, 185
„ Bismuth-oxide	4, 434	Pyrotartaric acid	11, 83
„ Cadmic oxide	5, 56	„ acid, anhydrous	11, 101
„ Chromic oxide	4, 123	Pyrotartaril	11, 326
„ Chromic oxide and Potash	4, 147	Pyrotartarilic acid	11, 328
„ Cobalt-oxide	5, 331	Pyrotartaromitrail	11, 327
„ Cupric oxide	5, 419	Pyrotartaromitrailic acid	11, 328
„ Ferric oxide	5, 227	Pyrotartaril	11, 326
„ Ferric oxide and Soda	5, 272	Pyrotartarate of Alumina	11, 92
„ Ferrous oxide	5, 225	„ Ammonia	11, 87
„ Ferrous oxide and Soda	5, 272	„ Baryta	11, 90
„ Furfurne	10, 379	„ Bismuth	11, 93
„ Lead-oxide	5, 131	„ Cadmium	11, 94
„ Lime	3, 196	„ Cobalt	11, 97
„ Magnesia	3, 234	„ Cupric	11, 97
„ Magnesia and Soda	3, 252	„ Ethyl	11, 100
„ Manganous oxide	4, 217	„ Ferric	11, 96
„ Manganous oxide, Soda, and Ammonia	4, 240	„ Ferrous	11, 95
„ Mercurous oxide	6, 17	„ of Glucina	11, 92
„ Nickel-oxide	5, 369	„ Lead	11, 94
„ Potash	3, 29	„ Lime	11, 91
„ Potash and Ammonia	3, 71	„ Magnesia	11, 91
„ of Quinine	17, 276	„ Manganese	11, 93
„ Silver-oxide	6, 149	„ Mercuric	11, 98
„ Soda	3, 93	„ Mercurous	11, 98
„ Soda and Ammonia	3, 118	„ of Methyl	11, 100
„ Soda and Baryta	3, 164	„ Morphine	16, 486
„ Soda and Potash	3, 120	„ Nickel	11, 97
„ Strontia	3, 172	„ Potash	11, 88
„ Uranic oxide and Soda	4, 190	„ Silver	11, 99
„ Zinc-oxide	5, 18	„ Soda	11, 89
„ Zinc-oxide and Ammonia	5, 37	„ Strontia	11, 90
Pyrophosphates	2, 133	„ Uranium	11, 92
Pyrophosphoric acid	2, 126	„ Zinc	11, 93
Pyrophyllite	3, 443	Pyrotartaromitrail	11, 327
Pyropissite	17, 443	Pyrotartaryl and Phenyl, nitride	
Pyroracemic acid	9, 424	of	11, 326
Pyroretan	17, 440	Pyroterebithic acid	11, 422
		Pyroxam	15, 106
		Pyroxanthin ?	14, 163
		Pyroxanthogen	14, 164
		Pyroxylic spirit	7, 258
		Pyroxylin	15, 168
		„ composition of	15, 173
		„ decomposition of, by alkaline leys	15, 178
		„ decomposition of, by binioidide of potassium	15, 177
		„ decomposition of, by camphor	15, 179
		„ decomposition of, by the electric current	15, 175
		„ decomposition of, by fat oils	15, 179

Pyroxylin, decomposition of, by friction and percussion ..	15, 175	protochloride of iron ..	15, 179
„ decomposition of, by heat ..	15, 175	Pyroxylin, decomposition of, by resins ..	15, 179
„ decomposition of, by hydrochloric acid ..	15, 178	„ decomposition of, by hot steam ..	15, 176
„ decomposition of, by hydrosulphate of ammonia ..	15, 178	„ decomposition of, by sulphuric acid ..	15, 177
„ decomposition of, by hydrosulphate of potassium ..	15, 179	„ decomposition of, by sulphurous acid ..	15, 178
„ decomposition of, by light ..	15, 537	„ decomposition of, by wax ..	15, 179
„ decomposition of, by oil of vitriol and metallic mercury ..	15, 179	„ formation of ..	15, 169
„ decomposition of, by nitric acid ..	15, 177	„ preparation of ..	15, 169
„ decomposition of, by permanganate of potash ..	15, 179	„ properties of ..	15, 172
„ decomposition of, by ..		„ solutions of ..	15, 179
		„ spontaneous decomposition of ..	15, 175
		Pyrrol ..	15, 5
		Pyrrol-red ..	15, 3, 535
		Pyruvates, metallic ..	9, 419—425
		Pyruvic acid ..	9, 418
		<i>Python amethystinus</i> , pigment from the bile of ..	18, 80

Q.

Quadrat's compound resembling Benzoylazotide ..	12, 207	Quadrobromonaphthalin Hydrobromate ..	14, 36
Quadrobasic Arseniate of Cupric oxide ..	5, 472	Quadrobromophloretin ..	16, 10
„ Arsenite of Ferric oxide ..	5, 304	Quadrobutyromannitan ..	15, 376
„ Carbonate of Zinc-oxide ..	5, 14	Quadrochloro-camphor ..	14, 349
„ Hyponitrate of Lead-oxide ? ..	5, 153	Quadrochlor-hydrocarotin ..	17, 55
„ Hyposulphate of Cupric oxide ..	5, 424	Quadrochlorinated Hydrochloric Ether ..	9, 213
„ Nitrate of Zinc-oxide ..	5, 34	„ Hydrosulphuric Ether ..	9, 214
„ Nitrite of Lead-oxide ..	5, 152	Quadrochlorobutyric acid ..	10, 141
„ Phosphate of Cupric oxide ..	5, 419	Quadrochlorobutyral ..	10, 141
„ Phosphite of Lead-oxide ..	5, 129	Quadrochlorocarotin ..	17, 16
„ Sulphate of Cupric oxide ..	5, 425	Quadrochlorocinnamyl Hydride ..	13, 298
„ Sulphate of Ferric oxide ..	5, 242	Quadrochloronaphthalin, Bihydrochlorate ..	14, 62
„ Sulphate of Zinc-oxide ..	5, 22	Quadrochloronaphthalins ..	14, 59
„ Zinc-sulphate with Ammonia ..	5, 37	Quadrochlorosuccinic acid ..	10, 142
Quadroborate of Soda ..	3, 89	Quadrochlorosulphonaphthalic acid ..	14, 62
Quadrobromonaphthalin ..	14, 35	Quadrochlorotannaspidic acid ..	15, 499
„ bihydrobromate ..	14, 37	Quadrochloroterebene ..	14, 440
		Quadrochlorovalerates ..	11, 104
		Quadrochlorovalerianic acid ..	11, 108
		Quadrochlorovinic Acetate ..	9, 238
		Quadronitrocellulose ..	15, 167
		Quadronitrodulcite ..	15, 388
		Quadrosaccharides ..	15, 818
		Quadroselenite of Ammonia ..	2, 465
		„ Zinc-oxide ..	5, 27
		Quadrosilicate of Cupric oxide ..	5, 465
		„ Alumina ..	3, 418

- Quadrosilicate of Ferric oxide . 5, 283
 " Ferrous oxide 5, 281
 Quadrostearate of Dulcetyl . . 17, 128
 " Mannityl . . 17, 127
 " Pinityl . . 17, 126
 Quadrosulphate of Antimonio
 oxide . . . 4, 361
 Quadrotellurate of Ammonia 4, 415
 " Luthia . 4, 423
 " Potash 4, 419
 " Soda . 4, 421
 Quadrotellurite of Ammonia 4, 414
 " Lime . . 4, 424
 " Luthia 4, 422
 " Potash . . 4, 417
 " Soda . 4, 421
 Qualitative alteration of ele-
 ments by combi-
 nation . 1, 64—111
 " alteration of ele-
 ments and com-
 pounds by decom-
 position . 1, 184
 Quantity of the electric current
 of a galvanic bat-
 tery, conditions de-
 termining the
 1, 413; 3, 415
 " the electric current,
 Ohm's formulæ re-
 lating to . . 1, 414
 " the electric current
 produced by two
 metals and one
 liquid . . 1, 376
 " the electric current,
 and quantity of
 liquid decomposed,
 relation between 1, 435
 " the products of de-
 composition in the
 voltaic current . 1, 479
 Quartation of Gold and Silver 6, 203
 Quartz 4, 352
 Quassia extract, eremacansis of 7, 92
 Quassin 14, 420
 Quercitrin 16, 500
 Quercetamide . . . 16, 495
 Quercetic acid . . . 16, 488
 Quercetin . . . 15, 347; 16, 490
 Quercimelin, *see* Quercitrin.
 Quercin . . . 18, 238
 Quercitartaric acid . . . 15, 216
 Quercite . . . 15, 215
 Quercitrin . . . 15, 347; 16, 495
 " -sugar 15, 348; 16, 535
 Quercityl Bistearate . . . 17, 126
Quercus Robur, ferment-oil of . 14, 406
 Quick flux . . . 3, 69
 Quick lime, action of, on a
 tone . . . 13, 411
 Quicksilver . . . 6, 1
 " Fahl-ore . . 5, 494
 Quillaia bark, preparation of sa-
 ponin from . . . 16, 86
 Quills, composition of . . 18, 348
 Quinces, ripe, ethereal liquid dis-
 tilled from . . . 12, 459
 Quinhydrone . . . 11, 164
 Quinic acid, *see* Kinic acid
 Quinicine . . . 17, 302
 Quinidine, decompositions of . 17, 298
 " hydrated . . 17, 298
 " Hydrochlorate with
 Zinc-chloride . 17, 300
 " memoirs relating to 17, 294
 " with Nitrate of Silver 17, 300
 " preparation of . . 17, 297
 " properties of . . 17, 297
 " salts . . . 17, 298
 " solutions of 17, 298, 302
 " sources of . . 17, 296
 " varieties of . . 17, 295
 Quinine . . . 17, 262
 " with Anethol . . 17, 292
 " with Antimonio acid . 17, 284
 " with Cinchona-red . 17, 293
 " crystallised . . 17, 274, 615
 " crystallised, hydrate of 17, 274
 " decompositions of . . 17, 269
 " estimation of, in Cin-
 chona bark . . . 17, 268
 " hydrates . . 17, 273, 615
 " with Iodide of Iron . . 17, 284
 " memoirs relating to . 17, 262
 " production of Chinoline
 from, by distillation
 with potash . . 17, 273
 " properties of . . 17, 269
 " reaction of, with Chlo-
 ride of Iridium and
 Sodium . . . 17, 286
 " reaction of, with Chlo-
 rine . . . 17, 270
 " reaction of, with Chlo-
 rine, Water, and Am-
 monia . . . 17, 271
 " reaction of, with Flu-
 silicic Alcohol . 17, 284
 " reaction of, with Phos-
 phantimonio acid . 17, 284
 " reaction of, with Pyro-
 gallic acid . . . 17, 291
 " reaction of, with Ter-
 chloride of Gold . . 17, 286
 Quinine-salts —
 Acetate . . . 17, 289
 Antitartate . . . 17, 291

Quinine-salts—(continued):—*

Arseniate	17, 284, 615
Aspartate	17, 290
Benzoate	17, 617
Betuloretate	17, 404
Borate	17, 275
Carbonate	17, 275
Chlorate	17, 282, 615
Chloromercurate	17, 285
Chloroplatinate	17, 286
Chromate	17, 284, 616
Citrate	17, 292
Croconate	17, 291
Cyanurate	17, 289
Dextrotartrate	17, 291
Eugenate	17, 611
Formiate	17, 289
Hydrodates	17, 281, 635
Hydrochlorate	17, 282, 615
Hydrocyanate	17, 286
Hydroferrocyanate	17, 287
Hydroferrocyanate	17, 287
Hydrofluat	17, 283
Hydrosulphocyanate	17, 288
Hypophosphite	17, 275
Hyposulphate	17, 277
Hyposulphite	17, 276
Iodate	17, 281
Kinate	17, 294
Lactate	17, 292
Mellitate	17, 289
Moritanate	17, 293
Nitrate	17, 283
Oleate	17, 294
Oxalate	17, 273, 615
Perchlorate	17, 382
Perchromate	17, 284
Periodate	17, 281
Phosphate	17, 276, 615
Pyrophosphate	17, 276
Picrate	17, 292
Rhodizonate	17, 291
Succinate	17, 290, 616
Sulphate	17, 277

Quinine-salts—(continued):—

Sulphate with Orcin	17, 292
Sulphate	17, 277
Tannate	17, 293
Tartrate	17, 291
Urate	17, 291
Valerate	17, 290
Quinine, solutions of	17, 274, 294
„ sources of	17, 263
„ Winckler's amorphous	17, 305
„ and Cinchonine, prepa- ration of	17, 264
„ and Cinchonine, pro- portions of, in Cinchona bark	17, 264
„ and Cinchonine, puri- fication of	17, 265
„ Iron Sulphate	17, 284
Quinine and Potash, tartrate	17, 291
„ and Silver, nitrate	17, 285
Quinine-sulphuric acid	17, 507
Quinidine	17, 303
„ preparation of quini- dine from	17, 297
Quinoline	13, 243
Quinone	11, 158
Quinova-red	15, 486
Quinovatannic acid	15, 484
Quinovic acid, <i>see</i> Kinovic acid.	
Quintobasic Phosphate of Cupric oxide	5, 418
Quintobasic Sulphantimonite of Lead	5, 176
Quintochlorocarboic acid	11, 184
Quintochloromenthene	14, 480
Quintochloronaphthyl Chloride, <i>see</i> Sexchloronaphthalin.	
Quintochlorothymol	14, 442
Quintochlorotoluol, Bihydrochlo- rate	12, 292
„ Terhydrochlo- rate	12, 293
Quintochlorovinic Acetate	9, 288
Quirinus oil	12, 439

R.

Racemate of Ammonia	10, 349
Racemate, Ammonio-ferric	10, 358
Racemate of Arsenious acid and Ammonia	10, 355
„ acid and Potash	10, 356
„ acid and Soda	10, 356
„ Baryta	10, 352
„ Boracic acid and Potash	10, 350
„ Boracic acid, Soda, and Potash	10, 352

Racemate Cerous	10, 355
„ Chromic	10, 355
„ of Cobalt	10, 358
„ Cobalt and Potas- sium	10, 358
„ Cupric	10, 359
„ Cuprous	10, 359
„ Ferric	10, 358
„ Ferrous	10, 357
„ of Lead	10, 357
„ Lime	10, 358

Racemata of Magnesia ..	10, 354	Ratanhia-red	6, 530
" Manganous ..	10, 355	Ratanhiatannic acid	15, 529
" Mercurous	10, 360	Rational formulæ of organic compounds ..	7, 8
" of Nickel ..	10, 359	Ray-liver oil	16, 326
" Nickel and Ammonia	10, 359	Rays of heat, dispersion of	1, 165
" Potash ..	10, 350	" light ..	1, 164
" Potash and Ammonia ..	10, 350	Razoumoffskin	3, 418
" Potassio-antimoniac ..	10, 356	Realgar ..	4, 271
" Potassio-cupric ..	10, 359	" Phosphorus- ..	1, 194
" Potassio-ferric ..	10, 358	Reaumur, Centigrade and Fahrenheit Scales, comparative Table of ..	1, 237
" of Soda ..	10, 350	" porcelain	3, 384
" Soda and Ammonia ..	10, 351	Reciprocal affinity ..	1, 125—133
" Soda and Potash ..	10, 351	" affinity, apparent cases of ..	1, 132
" Sodio-cupric ..	10, 360	" affinity, influences affecting ..	1, 125
" of Silver ..	10, 360	" affinity, works relating to ..	1, 133
" Stannous	10, 357	Red acid of Annatto, resinous ..	16, 520
" Strontia ..	10, 353	" Cacao ..	16, 530
" Zinc ...	10, 357	" Colouring matters of berries ..	16, 528
Racemic acid ..	10, 346	" Colouring matters of roots ..	16, 531
" anhydrous	10, 361	" Copper-ore ..	5, 403
" crystallised ..	10, 348	" Ferrocyanide of Potassium ..	7, 468
" copulated acids produced by ..	7, 227	" of Flowers ..	16, 525
" anhydride ..	10, 361	" Hæmatite	6, 194
Racemomethylate of Potash ..	10, 362	" of Hypericum ..	16, 527
Racemomethylac acid ..	10, 362	" Iron-stone	5, 194
Racemovinic acid ..	10, 363	" Lead	5, 118
Radiant heat	1, 212	" Lead spar	4, 105; 5, 170
" powers ..	1, 160	" of Leaves ..	17, 1
Radiating and absorbing powers, reciprocity of ..	1, 213	" Oxide of Copper	5, 403
Radicals, organic, substitution of, for hydrogen ..	7, 74	" Oxide of Iron ..	5, 194
" terminology of	7, 9	" Oxide of Lead ..	5, 118
Radical theory	7, 9	" Oxide of Mercury	6, 8
" theory, and theory of types and substitution, connection between	7, 16	" Prussiate of Potash	7, 468
Radicals, two kinds of, to be considered in the binary theory ..	7, 12	" Sulphide of Arsenic ..	4, 271
Radish-oil ..	10, 56	" Zinc-ore	5, 10
Radio Men, acrid resin of ..	17, 450	Refined Copper	5, 398
Radio Pareira brava, preparation of Pelosine from	17, 25	" Iron	5, 205
Radio Sumbulus, resin of	17, 453	" Steel	5, 206
Raewsky's Ammoniacal Platinum compounds ..	6, 309—312	Reflecting and retaining powers of bodies for heat, reciprocity of	1, 213
Raimond Lully ..	1, 3	Reflection of Light	1, 164
Rain-water, purity of	2, 60	Refraction of Organic Liquids ..	7, 64
Rangoon Naphtha, paraffin from ..	18, 168	Refraction of Light ..	1, 164
Rape oil	17, 554	Refrangibility of Heat-rays ..	1, 213
" oil, preparation of Erucic acid from ..	17, 550	Regnault's determinations of the maximum tension of aqueous vapour	1, 263
Rapid combustion of organic compounds	7, 84	" determinations of the specific heat of liquids	1, 247
Raspberry-camphor	14, 393		

Reaumur's determinations of the specific heat of metals	1, 212	Resin of the Copaiba balsam of Para	17, 329
„ experiments on the expansion of gases by heat	1, 224	Resins of Copal, separation of	17, 405
<i>Regulus Antimonii martialis</i>	5, 310	Resin from <i>Cornus florida</i>	18, 222
„ <i>Antimonii medicinalis</i>	4, 359, 379	„ of Cubebs	17, 447
Reichenbach's Assamar	15, 248	„ the Daphnads	17, 178
„ Cholesterin	18, 122	„ <i>Dracena Draco</i>	17, 387, 618
„ from Coal-tar	18, 165	„ Elemi	17, 413
Reindeer's feet, ossein in	18, 352	„ <i>Ferula Asafetida</i>	17, 398
Relative heat	1, 238	„ Flowers	16, 513
Rennet, coagulation of casein by	18, 312	„ Galbanum	17, 239, 618
<i>Reseda luteola</i> , oil from the seeds of	16, 315	„ <i>Garcinia Mangostana</i>	17, 381
Residues, Gerhard's Law of	7, 76	„ Gomart	17, 415
<i>Resgalium</i>	4, 273	Resins of <i>Grana Paradisi</i>	17, 450
Resin of Aldehyde	17, 456	Resin of Guaiacum	17, 247, 618
<i>Resina Jalapa ex stipitibus</i> , preparation of Jalapin from	16, 406	„ Icica	17, 421
Resin-acid of Narthecium	18, 237	„ Ivy	17, 415
Resineone	18, 10	Resins of Juniper berries	17, 449
Resin-oil, preparation of Toluene from	12, 227	Resin, Kawaller's, from <i>Pinus sylvestris</i>	15, 34
Resinone	18, 10	„ of Labdanum	17, 422
Resinous yellow of leaves	16, 515	„ <i>Laetia resinosa</i>	17, 422
Resins, analysis of	17, 617	Resins from Lignite	17, 437
„ containing Benzoic or Cinnamic acid	17, 383	„ from the Lignite of Weissenfels	17, 443
„ free from Benzoic acid	17, 396	„ of the bark of Lopez root	17, 450
„ fossil	17, 430	Resin of Manna, acrid	17, 450
„ in general	17, 382, 618	„ Masopin	17, 422
Resin of Aldehyde	17, 456	Resins of Mastic	17, 423
„ Alouchi	17, 396	Resin of Olibanum	17, 427
Resins of Amber	17, 431	„ Opoponax	17, 427
Resin of <i>Amyris Caranina</i>	17, 404	„ <i>Paris quadrifolia</i>	18, 124
„ Anachuita-wood	17, 446	Resins of Peat	17, 442
„ Angelica-root	17, 446	„ Peru Balsam	17, 390
„ Angustura bark	17, 446	„ <i>Petasites vulgaris</i>	17, 451
„ <i>Araucaria brasiliensis</i>	18, 19	„ <i>Pimpinella saxifraga</i>	17, 451
„ from Arbol-a-Brea	17, 397	„ from <i>Pinus sylvestris</i>	15, 34, 18, 15, 16
„ from <i>Arctostaphylos Uva Ursi</i>	15, 421	„ extracted from plants	17, 436
Resins of Arnica-root	17, 363	„ of Poplar-buds	17, 451
Resin of Asafetida	17, 398	Resin of <i>Radis Sumbulus</i> (Sumbul balsam)	17, 453
„ the bark of <i>Atherosperma Moschatum</i>	17, 447	Resins from <i>Rottlera tinctoria</i>	17, 378
Resins of Benzoin	17, 383, 617	Resin of Sagapenum	17, 428
Resin, Beta-thuja	15, 35	„ Sandarac	17, 429
„ of <i>Bursera gummyfera</i> or <i>B. acuminata</i>	17, 404	„ Settling Stones	17, 441
„ <i>Cannabis indica</i>	17, 447	„ Spanish Pepper	17, 450
„ <i>Ceradia fuscata</i>	17, 404	Resins of Squill	17, 451
„ <i>Ceroxylon Andicola</i>	17, 405	Resin of Tacamahac	17, 430
Resins from Cinnamon-oil	13, 264	Resins from Tolu-balsam	13, 290; 17, 393
Resin of Colocynth	16, 558	Resin of tuberosa Jalap-root, soluble in ether	16, 159
		„ Turpeth	17, 453
		Resins from Turpentine-oil	18, 20
		Resin of <i>Xanthorrhoea hastalis</i>	17, 386
		„ yellow, of Botany Bay	17, 386
		Resins, solutions of, in volatile oils	7, 169

- Resorcin 17, 240
 Respiratory passages, mucus of 18, 346
 Retarding cells in the voltaic
 current 1, 478
 Retene 17, 8
 " with Picric acid 17, 10
 " with Picric acid and
 Benzene 17, 11
 " -bisulphuric acid 17, 12
 Retinaphtha 12, 226
 Retinasphalt 17, 440
 Retinerin, *see* Metanaphthalin.
 Retinite 17, 441
 Retorts 1, 288
 Rettinyl 13, 339
 Rhabarberin 16, 171
 Rhabarbic acid 16, 171
 Rhamnetin 16, 75
 Rhamnin 16, 80
 Rhamnocathartin 16, 81
 Rhamnotannic acid 16, 530
 Rhamnoxanthin 16, 76
Rhamnus catharticus and *Rh.*
 Frangula, occur-
 rence of Frangulin
 in 16, 76
 " *Frangula*, bitter from
 the bark of 18, 217
Rhaphigaster punctipennis, pre-
 paration of Cimicic acid from 16, 234
 Rhaponticin 16, 172
 Rhatany-root, Tannic acid from 15, 529
 Rheadic acid 16, 527
 Rheic acid, *see* Chrysophanic
 acid.
 Rheumin 16, 171
 Rhinanthin 18, 239
 Rhizomorphs, phosphorescence
 of 1, 188
 Rhodeoretin, *see* Convolvulin
 Rhodeoretinol, *see* Convolvulinol.
 Rhodiate of Ammonia 6, 364
 " Lime 6, 367
 " Potash 6, 365
 " Soda 6, 367
 Rhodic Acetate 8, 334
 " Arseniate? 6, 367
 " Hydrate 6, 361
 " Nitrate 6, 364
 " Oxide 6, 360
 " Phosphate 6, 361
 " Salts 6, 361
 " Sulphate 6, 362
 Rhodio-potassic Sulphate 6, 365
 Rhodio-sodic acetate 8, 334
 " -sodic Nitrate 6, 367
 Rhodioso-rhodate of Potash 6, 365
 " -rhodic oxide 6, 359
 Rhodious oxide 6, 359
 Rhodious sulphate 6, 362
 Rhodium 6, 358
 Rhodium, Ammonio-sesquichlo-
 ride? 6, 364
 " Aqueous Sesquichlo-
 ride 6, 364
 " Arsenide 6, 367
 " Chlorides 6, 368
 " Oxides 6, 359
 " preparation of 6, 255, 264
 " Protochloride 6, 363
 " Protoxide 6, 359
 " Protosulphide 6, 362
 " reactions of 6, 361
 " -salts, solubility of, in
 alcohol 8, 272
 " Sesquichloride 6, 364
 " Sesquioxide 6, 360
 " Sesquisulphide 6, 362
 " Sulphides 6, 362
 " and Bismuth, Alloy 6, 368
 " and Copper, Alloy 6, 368
 " and Gold, Alloy 6, 368
 " and Iron, carbide 6, 368
 " and Lead, Alloy 6, 368
 " and Silver, Alloy 6, 369
 Rhodizonate of Atropine 16, 455
 " Cinchonine 17, 218
 Rhodizonates, metallic 10, 400
 Rhodizonate of Morphine 16, 436
 " Quinine 17, 291
 " Veratrine 18, 184
 Rhodizonic acid 10, 398
Rhododendron ferrugineum 15, 530
 " *ferrugineum*, Eri-
 colin in 16, 28
 Rhodotannic acid 15, 530
 Rhœadine 18, 206
 Rhœaginine 18, 207
 Rhombohedral Bismuth-glance 4, 450
 Rhomboidal Saltpetre 3, 117
 Rhubarb bitter 16, 171
 " preparation of Chryso-
 phanic acid from 16, 172
 " -stalks, preparation of
 Malic acid from 10, 211
 " -yellow 16, 171
Rhus copallina, Copal obtained
 from 17, 405
 " *coriaria*, preparation of
 Malic acid from the ber-
 ries of 10, 211
 " *succedanea*, Japan wax
 obtained from 16, 393
 Rhustannic acid 15, 531
 Rice, preparation of Starch from 15, 77
 Richter's law of neutralisation 1, 120
 " researches on com-
 bining proportions 1, 6

Ricinelauidamide	17, 148	Roger Bacon	1, 8
Ricinelauidate of Ethyl. .	17, 144	Rolled Sulphur	2, 156
Ricinelauidic acid	17, 135	Rollet's Hæmatin crystals ..	18, 404
Ricinelauidin	17, 144	Roman Cement	3, 391
Ricinine	17, 143	„ Chamomile-oil, hydro-	
Ricinolamide	17, 147	carbon from	14, 309
„ preparation of oc-		„ Cumin-oil, preparation of	
tylic alcohol		cuminol from	14, 145
from	13, 184	Romans, chemical knowledge of	1, 3
Ricinoleates Alkaline, decompo-		Roots, blue and red colouring	
sitions of	17, 132	matters of	16, 531
Ricinoleate of Ethyl	17, 143	Roots, leaves, &c, eremacansis	
Ricinoleates, metallic	17, 133	of aqueous infusions of	7, 92
Ricinoleic acid	17, 131	Rosacic acid	10, 200
„ preparation of oc-		Rose-camphor	14, 394
tylic alcohol from	13, 134	„ -oil	14, 393
<i>Ricinus communis</i> , castor-oil		„ -oil, Stearoptene of	14, 395
from the seeds of	17, 137	Rosellane	3, 448
Rinman's green	5, 353	Rosemary-oil	14, 395
Ripidolite	3, 422	Rose's fusible metal	5, 180
Roasting	1, 271	Rosite	3, 448; 14, 480
Robinin	16, 505	Rosolic acid	11, 153
<i>Rocella Montagnei</i> , preparation		Rotatory power, optical, of or-	
of erythric acid from	12, 382	ganic liquids	7, 64
„ <i>tinctoria</i> , preparation of		„ „ optical, of sac-	
litmus from	12, 365	charine solu-	
„ <i>tinctoria</i> , preparation of		tions	15, 245
orsellie ether from	12, 373	<i>Rottlera tinctoria</i> , flocks from	17, 378
Rocellanilide	16, 478	„ „ resins from	17, 378
Roccellate of Cinchonine	17, 220	„ „ resinous co-	
„ Ethyl	16, 478	louring mat-	
Roccellates, metallic	16, 476	ter of	17, 378
Rocellie acid	16, 474	Rottlerin	14, 519
„ anhydride	16, 477	Roucou, <i>see</i> Annatto.	
Rocellmin	16, 296	Rough Steel	5, 206
Rochelle salt	10, 282	Rubellite	3, 455
Rock-crystal	3, 352	Ruberythric acid	16, 42
„ „ effect of, in induc-		Rubiaccates	16, 52
ing the combina-		Rubiaccic acid	16, 50
tion of hydrogen		„ „ compound of, with	
and oxygen	2, 53	Rubiacin	16, 52
Rock-oil	12, 438	„ „ preparation of, from	16, 47
„ from Amiano	12, 439	madder	16, 34
„ „ Baku	12, 440	Rubiadin	16, 53
„ „ Niebylow in Gali-		Rubiadin	16, 55, 60
cia	12, 441	Rubiadin	16, 50
„ „ Lake Tegern	12, 441	Rubiagin	16, 54
„ „ the naphthalife-		Rubian, combinations of	16, 38
rous limestone of		„ decomposition of, by the	
Travers	12, 441	albuminous matter of	
„ „ obtained by distil-		<i>Helianthus tuberosus</i>	16, 37
lation of bitami-		„ decomposition of, by al-	
nous shale	12, 442	kalis	16, 36
„ combinations of	12, 445	„ decomposition of aque-	
„ decompositions of	12, 443	ous solution of, by eva-	
„ vapour, tension of, at		poration	16, 35
different temperatures	1, 262	„ decomposition of, by	
Rock-salt	3, 110	chlorine	16, 36
„ „ diathermanceity of ..	1, 214		

Rubian, decomposition of, by erythrozym	16, 37	<i>Rumex obtusifolia</i> and <i>R. patiens</i> , preparation of chrysophanic acid from	16, 173
„ decomposition of, by heat	16, 35	Rumicin	16, 172
„ decomposition of, by oil of vitriol	16, 35	Runge's Carboic acid, preparation of	11, 143
„ decomposition of, by dilute sulphuric or hydrochloric acid ..	16, 35	Rusiochine	17, 272
„ memoirs relating to ..	16, 32	Russian black earth (<i>Tschornosem</i>), humous acids from ...	17, 473
„ preparation of ..	16, 33	Rust of Iron	5, 196
„ preparation of Alizarin from	14, 133	Rutheniate of Potash ? ..	6, 401
„ properties of	16, 35	Ruthenic acid	6, 399
„ sources of	16, 32	„ hydrate	6, 398
Rubianates	16, 40	„ oxide	6, 398
Rubianic acid	15, 348; 16, 36, 38	„ salts	6, 398
Rubianin	14, 133; 16, 56	„ sulphate	6, 399
„ formation of, from rubian	16, 36	Ruthenious oxide	6, 396
Rubic acid	12, 394	„ oxide and Potash, sulphate of	6, 402
Rubichloric acid	16, 66	Ruthenium	6, 394
Rubidehydran	16, 36, 45	„ chlorides	6, 400
Rubigin	16, 37	„ oxides	6, 396
Rubhydran	16, 36, 43	„ salts	6, 397
<i>Rubinus Antimonii</i> ..	4, 309	„ sulphides	6, 399
Rubretin	14, 134, 16, 36, 57	„ and Ammonium, chloride of	6, 401
„ preparation of, from madder	16, 34	„ and Barium, chloride of	6, 404
Rubitanic acid	15, 532	„ and Potassium, chloride of	6, 403
Ruby	3, 305	„ and Sodium, chloride of	6, 404
„ arsenic	4, 271	Rutile	3, 466, 474
„ glass	3, 331; 6, 235	Rutilin, Mulder's	15, 435
Rue-oil	14, 489	Rutin	16, 500
„ compounds of, with alkaline bisulphites ..	14, 492	Rutyl, Hydride of	14, 489
„ preparation of pelargonic acid from	13, 369	Ryacohite	3, 436
Rufigallic acid	12, 412	Rye-mucedin	18, 444
Rufumorates	15, 477	Rye-starch, wax obtained from, by action of nitric acid ..	18, 162
Rufisulphuric acid, Mulder's	15, 435		

S.

Sabadilla seeds, preparation of veratrine from	18, 179	Saccharates of Potash	11, 517
Sabadillic acid	18, 186	Saccharates of Silver	11, 522
Sabadilline	18, 184	Saccharates of Soda	11, 517
+ Saccharates	11, 516	„ Strontia	11, 518
„ of Ammonia	11, 516	„ Zinc	11, 519
„ Baryta	11, 518	Saccharic acid	11, 513
Saccharate of Bismuth ..	11, 519	Saccharides	15, 316
Saccharates of Cadmium ..	11, 520	Saccharimetry	15, 243
Saccharate, Chromic	11, 519	Saccharohumic acid	17, 474
Saccharates of Iron	11, 522	Saccharoidal substances ..	15, 65
„ Lead	11, 520	„ substances, $C^{12}H^{10}O^{10}$..	15, 212
„ Lime	11, 518	„ substances, $C^{12}H^{10}O^{12}$..	15, 302
„ Magnesia	11, 519	Saccharose, see Cane-sugar.	
		<i>Saccharum Saturni</i>	8, 316

Sacc's Pectic acid from wood ..	15, 413	Salicin, decomposition of, by Emul-	sin ..	15, 437
Safflower, effect of sunshine on		.. decomposition of, by Fer-	ric salts ..	15, 437
the colour of	7, 95	.. decomposition of, by Fluo-	silicic alcohol ..	15, 437
" -red	16, 202	.. decomposition of, by Heat	15, 433	
" -yellow ..	16, 204	.. decomposition of, by Hy-	drochloric acid....	15, 435
Saffron, antiaunonal ...	4, 359	.. decomposition of, by Nitric	acid ..	15, 435
" decoloration of alcoholic		.. decomposition of, by Osmic	acid ..	15, 437
tincture of, in sun-		.. decomposition of, by Ozone	15, 433	
shine.	7, 96	.. decomposition of, by Pe-	roxide of Lead ..	15, 433
" oil ..	14, 397	.. decomposition of, by Saliva	15, 437	
" preparation of Crocin		.. decomposition of, by Soda	15, 437	
from	16, 508	.. decomposition of, by Sul-	phuric acid ..	15, 434
Sagapenum ...	17, 428	.. decomposition of, when	swallowed ..	15, 438
Sage-camphor ..	14, 399	.. decomposition of, by Syn-	aptase ..	7, 98
Sage-oil ..	14, 398	.. formation of, from Popu-	ln	15, 431
Sagus, preparation of starch from		.. lead-compound of	15, 439	
the stems of various		.. memoirs relating to ..	15, 430	
species of ..	15, 77	.. occurrence of, in ..	15, 431	
Saint Evre's acid, prepared from		.. preparation of ..	15, 432	
chloroniceric acid ...	10, 404	.. preparation of Picric acid	from ..	11, 212
Sal Alembroth ...	6, 89	.. preparation of Salicylic	acid from ..	12, 247
alkali volatile	2, 431	.. properties of ..	15, 432	
amarum, anglicum, cathart-		Salicon, syn. with Carbolic acid	11, 139	
icum ..	3, 236	Salicyl, Bromide ..	12, 284	
" -ammoniac	2, 478	Chloride ..	12, 294	
" -ammoniac, Chromate of ..	4, 143	Hydride	12, 235	
" -ammoniac containing Sesqui-		Iodide	12, 283	
chloride of Iron ..	5, 264	Salicylamic acid ..	12, 320	
" -ammoniac with Ethylochlor-		Salicylate, Acetic	12, 282	
ride of Platinum ..	8, 391	of Ammonia ..	12, 250	
" -ammoniac with Mercuric		Amyl, neutral ..	12, 258	
Amido-chloride ..	6, 87	Baryta	12, 251	
" -ammoniac with Terchloride		Benzoic	12, 283	
of Antimony	4, 378	of Copper ..	12, 253	
" ammoniacum fixum ..	3, 207	Copper and Ba-	rium	12, 254
" ammoniacum secretum Glau-		Copper and Potas-	sium	12, 254
bers ..	2, 462	Ethyl ..	12, 259	
" digestivum Sylvii	3, 56	Lead	12, 252	
" de duobus ..	3, 89	Lime	12, 252	
" essentielle tartari	10, 266	Magnesia ..	12, 252	
" febrifugum Sylvii ..	3, 56	Methyl, neutral	12, 258	
" microcosmicum	3, 118	Monobrominated		
" mirabile Glauberi ..	3, 100	Methyl....	12, 286	
" narcoticon vitrioli ..	2, 97	Potash	12, 250	
" polychrestum Glaseri ..	3, 39			
" sedativum Hombergii	2, 97			
" tartari	3, 14			
" urina nativum, s. fusibile ..	3, 118			
" vegetabile ..	10, 275			
" volatile salis ammoniaci	2, 431			
Salmander, poisonous secretion				
from the cutaneous glands of	13, 244			
Salene	12, 231			
Salhydramide	12, 345			
Salicin	15, 348			
" decomposition of, by Chlo-				
rine	15, 434			
" decomposition of, by Elec-				
tricity	15, 433			

- Salicylate of Silver 12, 254
- Salicylic acid .. 12, 246
- " acid, anhydrous .. 12, 282
- " acid, resolution of, into carbonic acid and phenol ... 12, 249
- " ether .. 12, 259
- Salicylide of Acetyl .. 12, 245
- " Benzoyl .. 12, 214
- Salicylimide .. 12, 323, 345
- Salicylite of Ammonia .. 12, 230
- " Baryta .. 12, 242
- " Copper .. 12, 243
- " Iron .. 12, 243
- " Lead .. 12, 243
- " Magnesia .. 12, 242
- " Mercury .. 12, 244
- " Potash .. 12, 240
- " Silver .. 12, 244
- " Soda .. 12, 241
- " Zinc .. 12, 242
- Salicylosanilide .. 12, 349
- Salicylous acid .. 12, 235
- " acid, Acetate of .. 12, 245
- " acid, Benzoate of .. 12, 244
- " acid with Bisulphate of Potash .. 12, 241
- " acid with Bisulphate of Soda .. 12, 242
- " preparation of Salicylic acid from 12, 247
- Salicyluric acid.... 12, 331
- Salifiable oxides .. 2, 39
- Saligenin .. 12, 233
- Saline solutions, freezing points of 1, 254
- Saliretin .. 12, 231
- " preparation of Salicylous acid from .. 12, 236
- Salithol .. 12, 270
- Salivary glands, Mucin of .. 18, 345
- Salix alba*, humous substance from the rotten wood of .. 17, 472
- " *pentandra*, ferment-oil of .. 14, 407
- Salpa*, phosphorescence of .. 1, 185
- Salseparin, *see* Pariglin.
- Salt, bitter 2, 236
- " clay 3, 412
- " common 3, 110
- " common, electrolysis of .. 1, 457
- " common, traces of mercury in .. 6, 1
- " common, use of, for preserving meat 7, 117
- " double refined culinary 3, 56
- " Epsom 3, 236
- " Glauber's .. 3, 100
- " microcosmic .. 3, 118
- " phosphoric, 3, 118
- Salt, preparation of carbonate of soda from common .. 3, 79
- " sedative .. 2, 97
- " Seidlitz .. 3, 236
- " Seidschutz .. 3, 236
- " of Tartar .. 3, 18
- " of Wisdom .. 6, 89
- Saltpetre .. 3, 68
- " French method of purifying .. 1, 14
- " prismatic .. 3, 68
- " rhomboidal .. 3, 117
- Salts, action of oxalic acid on .. 13, 515
- " anomalies in crystallization of .. 1, 10
- " aqueous and igneous fusion of ... 2, 64
- " binary theory of .. 2, 15
- " capillary .. 3, 313
- " combination of, with water .. 2, 63
- " copulated .. 7, 221
- " decrepitating .. 1, 14
- " development of electricity by combination of, with one another .. 1, 322
- " development of electricity by combination of, with water and with acids .. 1, 321
- " double .. 2, 13
- " effect of solution of, on the solubility of gases in water .. 2, 69
- " efflorescence of .. 2, 64
- " expansion of, by heat .. 1, 234
- " hydrated, dehydration of, under the influence of light .. 1, 172
- " metallic, solubility of, in alcohol .. 3, 265
- " of organic acids, composition of .. 7, 207
- " organic acids, distinction of, from salts of inorganic acids 7, 211
- " remarks upon the theory of simultaneous solution of three, in water .. 2, 73
- Salvia pratensis*, ferment-oil of .. 14, 407
- Samaderin .. 18, 239
- Samanderine 18, 244
- Samaraskite .. 4, 19
- Sand, platiniferous .. 6, 253
- Sandal-red .. 16, 259
- Sandarac 17, 429
- Sandarach .. 4, 271
- Sanguinaria canadensis*, preparation of Chelerythrine from the roots of... .. 17, 157

<i>Sanguinaria canadensis</i> , second and third alkaloids obtained from	17, 162	Schiller-spar	3, 397
Santalates	16, 260	<i>Schistostega osmundacea</i> , phosphorescence of	1, 188
Santalic acid, or Santalin	16, 259	Schleretinnte	17, 441
Santonin	16, 249	Schluppe's Salt	4, 384
„ decompositions of	16, 251	Schorl	3, 454
„ metallic compounds of	16, 254	„ ordinary	3, 454
„ properties of	16, 251	„ titaniferous	3, 474
„ sources and preparation of	16, 250	Schroder's theory of volumes	1, 74
Saponaria-root, preparation of saponin from	16, 85	Schutzenberger's Carmine acids	16, 207
Sapan-red	17, 542	Schwarz's Hamatin	18, 408
Sapogenin	15, 53	Schwenfurt Green	8, 329
Saponifiable fats yielding glycerin	7, 227	„ Green with Butyric acid	10, 565
Saponification	7, 231	<i>Scilla maritima</i> , resin of	17, 451
Saponin	15, 348; 16, 84	Scallitin	17, 451
„ combinations of	16, 90	Sclerogen	15, 148
„ composition and properties of	16, 87	Scolezite	3, 488
„ decompositions of	16, 88	„ electric properties of	1, 320
„ preparation of	16, 85	<i>Scelopendra</i> , phosphorescence of	1, 185
Sapomite	3, 421	Scoparin	17, 516
Sapphire	3, 305	Scotch-fir seed, oil of	16, 315
Sarcosine	11, 498	Scrophularin	18, 289
Sarcosine	9, 432	Sculein	17, 451
Sarracينية	18, 208	Scurvy-grass oil	10, 55
Sarsaparilla-root, existence of parglin in	16, 99	Scyllite	15, 355
Sassafras-camphor	14, 161	Sea, phosphorescence of	1, 186
„ oil or essence	14, 161	„ -calf oil	16, 322
Saturation, capacity of	2, 7	„ -fish, putrefying, phosphorescence of	1, 190
„ point of	1, 39	„ -owl, colouring matter of	18, 421
<i>Saturmus</i> , syn. of Lead	5, 105	„ -salt	3, 100
Savin oil	14, 310	„ -water, preparation of bromine from the mother liquor of	2, 273
Savite	18, 249	„ -weed, preparation of iodine from ashes of	2, 249
Scale of Equivalents, Wollaston's	1, 63	Seal oil	16, 322
„ -oxide of Iron	5, 190	Sebacic acid	14, 498
Scales of Temperature	1, 8	„ ether	14, 499
Scammonic or Scammoniac acid, see Jalapic acid.		Sebacin	14, 447
Scammoniac acid, see Jalapinoic acid.		Sebamic acid	14, 501
Scammony, preparation of Jalapin from	16, 406	Sebamide	14, 503
„ -resin	15, 349	Sebate of Ethyl	14, 499
Scanlan's liquid	9, 55	„ Methyl	14, 499
Scapolite	3, 432	Sebates of Ammonia	14, 497
Scheele, his chemical discoveries	1, 4	„ „ metallic	14, 497
Scheelite	5, 166	Sebin	14, 500
Schelling's theory of the nature of matter	1, 159	Secondary charge in the voltaic circuit	1, 473
Schemes of chemical decomposition	1, 13	„ forms of crystals	1, 19
<i>Schizandra</i>	18, 249	„ nuclei	7, 19, 23
		Sedative salt	2, 97
		Seeds, phenomena exhibited by, during fermentation	7, 101
		„ preparation of cholesterol from	18, 112
		Seidlitz salt	8, 286

Seidschutz salt ..	3, 236	Selenites ..	2, 238; 3, 183
Selenaldine ..	9, 315	Selenite of Alumina ..	3, 314
<i>Selenbleikupfer</i> ..	5, 486	„ Ammonia ..	2, 264
Selenethyl ..	3, 356	„ Baryta ..	3, 153
Seleniates ..	2, 241	„ Cadmic oxide ..	5, 59
Seleniate of Baryta ..	3, 154	„ Chromic oxide ..	4, 129
„ Cobalt-oxide ..	5, 334	„ Ceric oxide ..	3, 269
„ Cupric oxide ..	5, 433	„ Cerous oxide ..	3, 269
„ Cupric oxide and		„ Cobalt-oxide ..	5, 334
„ Potash ..	5, 460	„ Cupric oxide ..	5, 433
„ Lead-oxide ..	5, 140	„ Cuprous oxide ..	5, 432
„ Magnesia ..	3, 240	„ Ferric oxide ..	5, 247
„ Nickel-oxide ..	5, 374	„ Ferrous oxide ..	5, 247
„ Potash ..	3, 45	Selenites of Glucina ..	3, 298
„ Silver-oxide ..	3, 157	Selenite of Lead-oxide ..	5, 139
„ Soda ..	3, 105	„ Lime ..	3, 203
„ Zinc-oxide ..	5, 28	„ Lithia ..	3, 130
Selenic acid ..	2, 239	Selenites of Magnesia ..	3, 240
„ oxide ..	2, 236	Selenite of Manganous oxide ..	4, 226
Selenide of Aluminium ..	3, 314	„ Mercuric oxide ..	6, 33
„ Ammonium ..	2, 464	„ Mercurous oxide ..	6, 33
„ Ammonium and Hy-		„ Nickel-oxide ..	5, 374
„ drogen ..	2, 464	Selenites of Potash ..	3, 44
„ Antimony ..	4, 362	Selenite of Silver-oxide ..	6, 156
„ Arsenic ..	4, 230	Selenites of Soda ..	3, 104
„ Barium ..	3, 153	Selenite of Stannic oxide ..	5, 82
„ Bismuth ..	4, 436	„ Strontia ..	3, 175
„ Cacodyl ..	9, 339	Selenites of Zinc-oxide ..	5, 27
„ Calcium ..	3, 202	Selenite of Uranic oxide ..	4, 178
„ Cerium ..	3, 269	„ Yttria ..	3, 283
„ Cobalt ..	5, 334	„ Zirconia ..	3, 345
„ Copper and Lead ..	5, 485	Selenium ..	2, 231
„ Cupric ..	5, 432	„ Bromide ..	2, 235
„ Cuprous ..	5, 432	„ Chlorides ..	2, 345
„ of Ethyl ..	8, 356	„ Chloride, sulphate of ?	2, 346
„ Glucinum ..	3, 298	„ detection of, in sulphur	2, 156
„ Iron ..	5, 246	„ Fluoride ..	2, 365
„ Lead ..	5, 139	„ Iodide ..	2, 268
„ Magnesium ?	3, 239	„ in oil of vitriol ..	2, 244
„ Mercury ..	6, 32	„ -mercaptan ..	8, 357
„ Mercury and Lead ..	6, 127	„ -salts ..	2, 9
„ Mercury and Zinc ..	6, 123	Seleniuretted Hydrogen ..	2, 241
„ Palladium ..	6, 347	<i>Selenkupferblei</i> ..	5, 485
„ Phosphorus ..	2, 242	Selenomethyl ..	10, 491
„ Platinum ..	6, 290	Selenocyanide of Potassium, solu-	
„ Potassium ..	3, 43	„ bility of, in alcohol ..	8, 273
„ Silver ..	6, 155	Selenocyanides ..	8, 122
„ Silver and Copper ..	6, 198	<i>Semen contra</i> , oil of ..	14, 315
„ Stibethyl ..	9, 82	„ <i>Cyna</i> , see Wormseed.	
„ Sulphur ..	2, 243	„ <i>Ricini</i> , acid soft resin	
„ Tellurium ..	4, 408	„ of ..	17, 451
„ Tin ..	5, 82	Semibenzidam ..	11, 293
„ Triethylphosphine ..	12, 525	Semi-conductors of electricity ..	1, 311
„ Yttrium ..	3, 288	Semihydrate of Dammaryl ..	17, 383
„ Zinc ..	5, 27	Seminaphthalidine, see Seminaph-	
Selenides or Selenurets, metallic	2, 244	„ thylamine ..	14, 107
Selenious acid ..	2, 236	Semi-opal ..	3, 461
„ solubility of, in		Senegun ..	16, 91
„ alcohol ..	8, 264		

Senna-leaves, bitter of	18, 240	Sesquichloride of Iridium and Ammonium	6, 382
Sensible heat	1, 252	" Iridium and Potassium	6, 385
Separating affinity	1, 124	" Iridium and Sodium	6, 390
Sepia	18, 418	" Iron	5, 253
Septichlorovinic acetate ...	9, 239	" Iron and Ammonium	5, 263
Sericin, syn. with Fibrou and with Myristin.		" Iron and Potassium	5, 271
Series, arrangement of organic compounds in	7, 23	" Osmium and Ammonium	6, 416
Serin of Denis	18, 271	" Osmium and Potassium ?	6, 418
Serine	18, 368	" Rhodium	6, 364
Serpentaria-bitter	18, 216	" Ruthenium	6, 401
Serpentaria-oil	14, 400	" Ruthenium and Ammonium	6, 401
Serpentine, noble	3, 395	" Ruthenium and Barium	6, 404
Serpents' bile, pigment of ..	18, 80	" Ruthenium and Potassium	6, 403
" eggs, phosphorescence ..	1, 183	" Ruthenium and Sodium	6, 404
" of	18, 274	" Titanium	3, 479
Serum-albumin	18, 278	Sesquicyanide of Iron	7, 448
" " electrolysis of	18, 278	Sesquifluoride of Chromium with Hydrofluic of Ammonia	4, 143
" " oxidation of	18, 278	" Chromium with Fluoride of Potassium	4, 151
" " precipitation of, by alcohol ...	18, 281	" Chromium with Fluoride of Sodium	4, 152
" " reactions of, with alkalis ..	18, 279	" Iron	5, 256
" " reactions of, with carbolic and pyrogallie acids	18, 281	" Iron and Silicium	5, 288
" " reactions of, with metallic salts	18, 280	" Iron and Potassium	5, 271
" -casein	18, 271	Sesqui-hydrosulphate of Cyanogen	8, 116
Serum, Eichwald's analysis of ..	18, 275	Sesqui-iodide of Platinum	6, 291
" of Muscle	18, 267	Sesquioxide of Chromium and Iron with Protoxide of Iridium?	6, 425
Sesame-oil	17, 98	" Cobalt	5, 322
Sesqui-arsenate of Ferric oxide ..	5, 307	" Iridium	6, 372
Sesquibasic Carbonate of Lead-oxide	5, 123	" Iridium with Potash	6, 388
" Chromate of Lead-oxide	5, 170	" Iron	5, 194
" Cupric acetate	8, 325	" Lead ?	5, 120
" Nitrate of Mercurous oxide	6, 71	" Osmium ?	6, 406
" Sulphantimonite of Lead	5, 176	" Osmium with Potash	6, 417
Sesquibromide of Iron	5, 250	" Rhodium	6, 360
Sesquibromocinchonine	17, 235	" Ruthenium	6, 397
Sesquicarbonate of Ammonia ..	2, 431		
" Baryta	3, 140		
" Cupric oxide	5, 415		
" Potash	3, 22		
Sesquichlorohydrocarbonate of Diplatinamine	6, 309, 317		
Sesquichlorohydronitrate of Diplatinamine	6, 312		
Sesquichlorohydrophosphate of Diplatinamine	6, 309, 318		
Sesquichloride of Carbon	2, 220		
" Iridium	6, 379		

Sesquioxide of Tin . . .	5, 70	Silica, Hydrochlorate . . .	3, 361
Sesquiphosphate of Ferric oxide	5, 226	„ Nitrate .. .	3, 368
Sesquiselenite of Ferric oxide ..	5, 247	„ -salts . . .	3, 357
Sesquisilicate of Alumina ...	3, 414	„ -solution . . .	3, 356
„ Ferric oxide	5, 282	„ Sulphate .. .	3, 360
„ Lime .. .	3, 389	„ Terhydrofluante ..	3, 366
„ Magnesia .. .	3, 400	„ and Antimonic oxide, hy-	
„ Magnesia and		drofluante . . .	4, 390
„ Lime . . .	3, 408	„ and Manganous oxide, hy-	
Sesqustannethyl .. .	13, 507	drofluante . . .	4, 244
Sesquisulphate of Ferric oxide	5, 243	„ and Molybdic acid, hydro-	
„ Ferrous oxide ?	5, 241	fluante . . .	4, 79
„ Potash .. .	3, 40	„ and Molybdic oxide, hy-	
Sesquisulphide of Cerium . .	3, 267	drofluante . . .	4, 79
„ Cobalt	5, 332	„ and Molybdous oxide, hy-	
„ Iridium	6, 376	drofluante .. .	4, 79
„ Iron .. .	5, 231	„ and Potash, carbonate	3, 373
„ Rhodium	6, 362	„ and Soda, carbonate ..	3, 386
„ Tin .. .	5, 79	„ and Uranous oxide, hydro-	
Settling Stones, resin of .	17, 441	fluante . . .	4, 192
Sexbasic Bromate of Cupric ox-		„ and Vanadic acid, hydro-	
ide ...	5, 437	fluante .. .	4, 104
„ Nitrate of Cobalt-oxide	5, 338	„ and Vanadic acid, phos-	
„ Nitrate of Lead-oxide .	5, 156	phate . . .	4, 103
„ Nitrate of Mercuric ox-		„ and Vanadic oxide, hydro-	
ide .. .	6, 74	fluante .. .	4, 103
„ Phosphate of Cupric		„ and Zinc-oxide, hydro-	
oxide ...	5, 418	fluante . . .	5, 47
„ Sulphantimonite of		Silicates . . .	3, 357
Lead	5, 175	„ of Alumina	3, 411
„ Sulphate of Ferric oxide	5, 241	Silicate of Alumina with Fluoride	
„ Sulphate of Zinc-oxide	5, 22	of Silicium or Fluoride of	
Sexborate of Magnesia .. .	3, 232	Aluminum .. .	3, 419
„ Potash	3, 26	Silicates of Alumina and Man-	
„ Soda	3, 89	ganous oxide . . .	4, 245
Sexchlorocamphor	14, 349	„ Alumina, compounds	
Sexchloronaphthalin .. .	14, 63	of, with the Sili-	
Sexchlorotoluol, .. .	12, 293	cates of Potash, Soda,	
Sexselenite of Ferric oxide ..	5, 247	Lithia, Baryta, Stron-	
Sexstearate of Mannityl .	17, 127	tia, Lime, Magnesia,	
Sextichlorovinic acetate .	9, 238	Protoxide of Cerium,	
Seybertite .. .	3, 462	Yttria, Glucina, Pro-	
Shark-oil	16, 322	toxide of Manganese	
Shear-steel .. .	5, 206	and Protoxide of Iron	3, 420
Shellac	17, 420	„ Ammonia ...	3, 368
Shellac, fat or wax of	16, 399	Silicate of Amyl, bibasic	11, 65
Shellac, wax of....	18, 162	„ Baryta .. .	3, 387
Siberite, . . .	3, 455	„ Baryta and Potash....	3, 388
<i>Siderum</i> .. .	5, 222	„ Cerium	3, 408
Silica ...	3, 352	„ Cobalt-oxide . .	5, 345
„ Amorphous	3, 355	Silicates of Cupric oxide .	5, 464
„ Arseniate ? .. .	4, 311	„ Ferric oxide .. .	5, 281
„ Chromate? .. .	4, 155	Silicate of Ferric oxide with Car-	
„ compound of, with acids	3, 357	bonate of Soda .. .	5, 233
„ with Crenic acid .. .	17, 468	„ Ferrous oxide .. .	5, 278
„ crystallised	3, 354	Silicates of Glucina .. .	3, 410
„ with Fluoride of Sodium	3, 387	Silicate of Glucina and Lime ..	3, 411
„ with Fluxes	3, 386	„ Glucina and Manga-	
„ Hydrate....	3, 356	nous oxide	4, 245

Silicate of Lead-oxide ...	5, 165	with 1 atom of alumina ...	3, 428
„ Lead-oxide and an Alkali ...	5, 166	Silicates, double, containing 2 atoms of stronger base, with 3 atoms of alumina ...	3, 447
Silicates of Lime ...	3, 388	„ double, containing 3 atoms of stronger base with 2 atoms of alumina ...	3, 429
Silicate of Lime and Potash ...	3, 393	„ double, containing 3 atoms of stronger base with 1 atom of alumina ...	3, 425
„ Lime and Soda ...	3, 394	„ double, containing 3 atoms of stronger base with 4 atoms of alumina ...	3, 425
Silicates of Magnesia ...	3, 395	„ double, containing 4 atoms of stronger base with 1 atom of alumina ...	3, 422
Silicate of Magnesia with Aluminate of Magnesia ...	3, 462	„ double, containing 5 atoms of stronger base with 1 atom of alumina ...	3, 422
„ Magnesia with Fluoride of Magnesium ...	3, 401	„ double, containing 6 atoms of stronger base with 1 atom of alumina ...	3, 421
Silicates of Magnesia and Lime ...	3, 401	„ double, containing 7 to 10 atoms of stronger base with 1 atom of alumina ...	3, 420
Silicate of Manganic oxide ...	4, 244	Siliceous Calamine ...	5, 46
„ Manganous oxide ...	4, 242	„ minerals, occurrence of manganese in, as colouring matter ...	4, 195
„ Mercurous oxide ...	6, 110	Silicide of Bismuth ...	4, 448
„ Molybdic oxide ...	4, 78	„ Copper ...	5, 464
„ Molybdous oxide ...	4, 78	„ Iron ...	5, 277
Silicates of Potash ...	3, 369	„ Lead ...	5, 165
„ Soda ...	3, 375	„ Platinum ...	6, 380
Silicate of Strontia ...	3, 388	„ Potassium ...	3, 369
„ Strontia and Potash ...	3, 388	„ Tin ...	5, 100
„ Thorina ...	3, 463	Silicium ...	3, 350
„ and Titanate of Lime ...	3, 488	„ allotropic forms of ...	3, 352
„ and Titanate of Potash ...	3, 487	„ alloys ...	3, 465
„ of Vanadic oxide ...	4, 103	„ Ammonio-chloride ...	3, 368
Silicates of Yttria ...	3, 409	„ Ammonio-fluoride ...	3, 368
Silicate of Zinc-oxide ...	5, 46	„ in bar iron ...	5, 205
„ Zinc-oxide and Potash ...	5, 47	„ Bromide ...	3, 360
„ Zirconia ...	3, 463	„ Bromide, expansion of, by heat ...	1, 226, 229
„ Zirconia and Lead-oxide ...	5, 166	„ Carbide ? ...	3, 359
„ Zirconia and Lime ...	3, 463	„ Cast iron ...	5, 215
„ Zirconia and Potash ...	3, 463	„ Chloride ...	3, 360
Silicates, double, compounds of, with borates ...	3, 453	„ Chloride, expansion of, by heat ...	1, 226, 229
„ double, compounds of, with carbonates ...	3, 452		
„ double, compounds of, with chlorides ...	3, 461		
„ double, compounds of, with fluorides ...	3, 461		
„ double, compounds of, with sulphates ...	3, 456		
„ double, containing 1 atom of stronger base with 1 atom of alumina ...	3, 431		
„ double, containing 1 atom of stronger base with from 2 to 2½ atoms of alumina ...	3, 448		
„ double, containing 1 atom of stronger base with 3 atoms of alumina ...	3, 449		
„ double, containing 1 atom of stronger base four atoms of alumina ...	3, 452		
„ double, containing 2 atoms of stronger base ...			

Silicium	Chlorosulphide	...	3, 361	Silver, alloys	....	6, 177—198
"	Fluoride	....	3, 362	"	-amalgam, artificial	.... 6, 198
"	Fluoride with Ani-	....		"	-amalgam, native	.... 6, 199
"	line.	..	11, 259	"	Ammonio-bromide	.... 6, 175
"	Fluoride with Sil-	....		"	Ammonio-chloride	.... 6, 176
"	icate of Alumina	...	3, 419	"	Ammonio-cobaltidcyanide	.... 3, 32
"	Fluoride with Nitric	....		"	Ammonio-cyanide	.... 3, 29
"	oxide, &c.	....	3, 368	"	Ammonio-iodide	.... 6, 175
"	Fluoride, solubility of,	....		"	Antimonide	.... 6, 189
"	in alcohol	...	3, 269	"	Arsenide	.... 6, 186
"	Hydride	....	3, 359	"	Auridcyanide	.. .... 3, 42
"	Oxide	...	3, 352	"	auriferous	.. .... 6, 247
"	Sulphide	...	3, 359	"	auriferous, telluride of	.. .... 6, 250
"	and Ammonium, fluoride	....	3, 368	"	Aurocyanide	.... 3, 42
"	and Barium, fluoride	....	3, 387	"	-bismuth,	.. .... 6, 193
"	and Calcium, fluoride	....	3, 393	"	Biselenide	.. .... 6, 156
"	and Chromium, fluoride	....	4, 156	"	-blende, antimonial	.. .... 6, 190
"	and Cobalt, hydrated	....		"	-blende, arsenical	.... 6, 188
"	fluoride	....	5, 345	"	blowpipe reactions of,	....
"	and Glucinum, fluoride	....	3, 410	"	with Borax and Micro-	....
"	and Iron, fluorides	....	5, 288	"	cosmic salt	.. .... 6, 179
"	and Lithium, fluoride	....	3, 387	"	Bromide	.... 6, 159
"	and Magnesium, fluoride	....	3, 400	"	Carbide	.. .... 6, 146
"	and Nickel, hydrated	....		"	Chloride, decomposition	....
"	fluoride	...	5, 386	"	of, by light	.. .... 2, 173
"	and Potassium, fluoride	....	3, 374	"	Chloride, reduction of	.. .... 6, 428
"	and Potassium, nitride	....	3, 375	"	Chloride, solubility of, in	....
"	and Potassium, sulphide	....	3, 373	"	hydrochloric acid	.... 6, 428
"	and Silver alloy	....	6, 182	"	Chloriodide	.. .... 6, 167
"	and Silver, carbide	....	6, 182	"	Chlorobromide	.. .... 6, 167
"	and Silver, fluoride	....	6, 182	"	Chromidcyanide	.... 3, 31
"	and Sodium, fluoride	....	3, 386	"	Cobaltidcyanide	.... 3, 32
"	and Strontium, fluoride	....	3, 388	"	-copper	.. .... 6, 197
"	and Yttrium, fluoride	....	3, 410	"	Cuprocyanide	.... 3, 33
"	and Zirconium, fluoride	....	3, 463	"	Cyanide,	.... 3, 26
Silicofluorides	..	...	3, 364	"	Cyanide, compounds of	.... 13, 410
Silicofluoride of Cadmium	....		5, 64	"	dark-red	.... 6, 190
"	Cupric	...	5, 465	"	decomposition of chloride	....
"	Cuprous	....	5, 465	"	of, by metallic sulphides	....
"	of Lead	....	5, 166	"	and arsenides	.. .... 6, 428
"	Mercuric,	..	6, 110	"	Dichloride	.... 6, 162
"	Mercurous	....	6, 110	"	Fahl-ore	.... 5, 493
"	of Platinum	....	6, 330	"	Ferridcyanide	.... 3, 32
"	Potassium	....	3, 374	"	Ferrocyanide	.... 3, 31
"	Tin	....	5, 100	"	fine or cupelled	.... 6, 133
Silk, colouring matter of yellow	....			"	-fir cones, oil of	.... 16, 316
"	raw	....	18, 367	"	Fluoride	.... 6, 168
"	-gelatin or Silk-jelly	....	18, 366	"	fulminating, Berthol-	....
"	(Jama-may)	....	18, 364	"	let's	.. .... 6, 172
"	(Jama-may) colouring mat-	....		"	fulminating, doublesalts of	.... 9, 308
"	ter of	..	18, 368	Silvering by galvanic precipita-	....
"	preparation of Picric acid	....		"	tion	.. .... 1, 501
"	from	....	11, 213	Silver, German	....	5, 497
"	substance of	....	18, 363	"	-glance	.. .... 6, 151
"	wax of raw	....	18, 162	"	Hydrothiosulphocyanide	.... 3, 101
Silkworms, fatty oil of	....		17, 98	"	Hyposulphophosphite	.... 6, 155
"	occurrence of gum in	....	15, 196	"	Iodide	.... 6, 157
Sillimanite	....		3, 413	"	Iodide with Nitrate of	....
Silver	....		6, 182	"	Mercuric oxide	.... 6, 199

Silver-iron	6, 195	Silver : Oxyalts (<i>continued</i>) .	
„ -lead	6, 194	Benzoylsalicylamate .	12, 325
„ -leaf, effect of, in inducing the combination of oxygen and hydrogen.	2, 52	Betuloretate ..	17, 404
„ light red ..	6, 188	Bibromacetate ...	12, 535
„ Mellonide	9, 394	Bibromisatate ..	13, 72
„ memoirs, history, sources of	6, 132	Bichlorosulphosomethylate .	7, 303
„ Mercaptide ..	8, 347	Biethylcyanurate ..	13, 565
„ Manganidcyanide ..	8, 31	Binitrobenzoate .	12, 136
„ -nickel ..	6, 196	Binitroethylates	12, 560
„ Nitrocyanide ..	8, 29	Binitrodiphenamate ...	11, 346
„ Nitroprusside ..	8, 134	Binitrosalicylate	12, 316
„ -ores, treatment of, by amalgamation	6, 134	Bisulphanilate ..	11, 299
„ -ores, treatment of, by the method of precipi- tation .	6, 133	Bisulphetholate ..	12, 517
„ -oxide ..	6, 139	Bisulphometholate .	12, 485
„ -oxide with Ammonia	6, 172	Borate .	6, 147
„ -oxide with Glass-fluxes	6, 182	Bromacetate .	12, 533
Silver : Oxyalts of :		Bromanisate .	13, 133
Acetamidate .	12, 545	Bromate .	6, 160
Acetate	8, 333	Bromobenzoate	12, 107
Acetopropionate ..	9, 408	Bromocomenate	11, 392
Aconitate ..	11, 456	Butyrate .	10, 88
Acrylate ..	9, 371	Cacodylate .	9, 331
Albuminate ..	18, 306	Campholate ..	14, 455
Alloxanate ...	10, 169	Camphorate .	14, 463
Alphatoluete .	17, 153	Caprate ..	14, 488
Amidamsate ...	13, 144	Caproate ..	11, 418
Amidobenzoate .	12, 146	Caprylate ..	13, 193
Ammonio-nitrate ...	6, 177	Carbobenzoate	12, 48
Ammonio-oxalate ...	13, 529	Carbonate ..	6, 146
Ammonio-sulphate	6, 174	Cerotate .	18, 137
Amylophosphate	11, 51	Chelidonate ..	12, 421
Amylosulphate	11, 60	Chloranilamate	11, 242
Amylosulphite	11, 53	Chloranilate ..	11, 192
Amylotartrate ..	11, 82	Chlorate ..	6, 167
Amyloxalate....	11, 73	Chlorisatide .	13, 74
Anacardate ...	17, 522	Chlorite ..	6, 166
Anchoate ...	13, 375	Chlorobenzoate	12, 115
Angelate ...	10, 416	Chlorocinnamate ...	13, 296
Anisate ...	13, 127	Chlorocomenate ..	11, 391
Anthranilate ..	12, 329	Chloroniceate ..	11, 177
Antimoniate....	6, 189	Chloronitrobenzoate ...	12, 139
Apoglucate	13, 367	Chlorosulphosomethylate	7, 302
Apophyllate .	13, 156	Cholate	18, 51
Apophyllo-nitrate ..	13, 156	Cholesterate acid .	13, 159
Arachidate	17, 372	Choloidate	18, 55
Arsenate	6, 186	Chromate ...	6, 184
Arsenite ..	6, 186	Chrysammate ..	12, 6
Arsenmethylete	13, 497	Chrysanilate ...	12, 331
Aspartate ..	10, 238	Chrysanisate	12, 303
Azelaate	17, 82	Cimicate	16, 285
Benzilate ..	12, 183	Cinnamate ..	13, 277
Benzoate	12, 45	Citraconate	10, 423
Benzoglycolate	12, 68	Citrates	11, 460
		Comenate ..	11, 388
		Convolvulate	16, 159
		Convolvulinolate	16, 153
		Copaivate ..	17, 327
		Cotarnate	16, 134
		Crenate	17, 468

Silver : Oxysalts

Croconate . . .	10, 395
Cumarate . . .	13, 318
Cuminatè . . .	14, 151
Cyanate . . .	8, 68
Cyanurate . . .	9, 456
Cyanurate with Ammonia . . .	9, 457
Diluturate . . .	10, 182
Elaidate . . .	17, 77
Erucate . . .	17, 551
Ethylcamphorate . . .	14, 466
Ethylmeconate . . .	12, 432
Ethylphosphate . . .	8, 401
Ethylsulphite . . .	8, 411
Ethylsulphobenzozate . . .	12, 64
Ethyltrithionate . . .	12, 515
Euchroate . . .	10, 21
Everminate . . .	16, 446
Formate . . .	7, 282
Fulminate, acid . . .	9, 309
Fulminate, neutral . . .	9, 303
Fulminurate . . .	10, 561
Fumarate . . .	10, 31
Gaédinate . . .	16, 320
Gambodate . . .	17, 419
Glycerate . . .	13, 572
Glycolate . . .	12, 510 ; 13, 437
Gloxylate . . .	12, 507, 13, 435
Gurgunatè . . .	17, 546
Hemipinatè . . .	14, 431
Hippurate . . .	12, 80
Hydrobromate, acid . . .	6, 160
Hydrochlorate, acid . . .	6, 166
Hydropiperate . . .	15, 13
Hyoglycocholate . . .	13, 106
Hypobromite . . .	6, 160
Hypochlorite . . .	6, 166
Hyposulphate . . .	6, 153
Hyposulphite . . .	6, 152
Inosate . . .	11, 120
Insolinate . . .	13, 321
Iodate . . .	6, 158
Isainate . . .	13, 111
Isatate . . .	13, 55
Isatide . . .	13, 54
Isobiglycoethylenatè . . .	15, 237
Isotartarate . . .	10, 333
Itaconate . . .	10, 427
Jalapinolate . . .	16, 403
Japonate . . .	12, 395
Kinate . . .	16, 233
Kinovate . . .	18, 25
Lactate . . .	11, 495
Laurate . . .	15, 48
Lencate . . .	15, 63
Lichenate . . .	16, 196
Linoleate . . .	16, 308
Lipate . . .	10, 435
Lithofellate . . .	17, 377

Silver : Oxysalts :

Malate . . .	10, 226
Maleate . . .	8, 159
Malonate . . .	13, 562
Mandelate . . .	12, 59
Mannitate . . .	15, 334
Manganate . . .	16, 473
Meconate . . .	12, 430
Melanate . . .	11, 163
Melissate . . .	18, 152
Mellitate . . .	10, 12
Mesaconate . . .	10, 432
Metaphosphate . . .	6, 149
Methylmitrosalicylate . . .	12, 318
Methylbithionate . . .	12, 489
Molybdate . . .	6, 183
Monochloracetate . . .	12, 539
Mucate . . .	11, 509
Mycometate . . .	10, 183
Myristate . . .	16, 214
Naphthionate . . .	14, 114
Naphthionate with Ammonia . . .	14, 115
Nitranisate . . .	13, 139
Nitrate . . .	6, 168, 170
Nitrate with Alkarsin . . .	9, 325
„ with Asparagme . . .	10, 248
„ with Caffèine . . .	13, 232
„ with Cyanide of Mercury . . .	8, 33
„ with Lophine . . .	12, 203
„ with Melaniline . . .	11, 354
„ with Nicotine . . .	14, 229
„ with Quindine . . .	17, 300
„ reaction of, with Tan- nic acid . . .	15, 471
„ compounds of Urea with . . .	7, 374
„ decomposition of Urea by . . .	7, 369
Nitrobenzoate . . .	12, 127
Nitrocacodylate . . .	9, 332
Nitrocacrylate . . .	13, 218
Nitrocinnamate . . .	13, 301
Nitrococussate . . .	13, 27
Nitrofrangulate . . .	16, 79
Nitrohippurate . . .	12, 121
Nitrophthalate . . .	13, 29
Nitrosopelargonate . . .	13, 372
Nitrosalicylate . . .	12, 311
Nitrotoluylate . . .	13, 23
Oenanthate . . .	12, 456
Oenanthylate . . .	12, 453
Oleate . . .	17, 72
Opiante . . .	14, 429
Osmiamate . . .	6, 422
Oxalate . . .	9, 169 ; 13, 528
Oxanilate . . .	11, 312
Oxatolylate . . .	17, 184

Silver · Oxyalts

Oxurate	10, 171
Oxycuminate	14, 152
Oxyxanthate	8, 465
Palmitate	16, 363
Pectate	15, 409
Pelargonate	13, 371
Pentathionate	6, 153
Perchlorate	6, 167
Periodate	6, 158
Permanganate	6, 186
Phloretate	13, 312
Phosphates	6, 148
Phosphates, Fleitmann and Henneberg's	6, 141
Phthlate	13, 13
Picramate	11, 245
Picrate	11, 227
Pimelate	12, 465
Piperate	15, 11
Pipitzahoate	16, 265
Propionate	9, 407; 10, 555
Purpurate	10, 199
Pyromeconate	10, 443
Pyromellitate	10, 16
Pyromucate	10, 385
Pyrophosphate	6, 149
Pyrotartrate	11, 99
Racemate	10, 360
Racemovinate	10, 365
Rhodizonate	10, 403
Ricinclaide	17, 137
Ricinoleate	17, 134
Rocellate	16, 477
Rubiace	16, 52
Rubinate	16, 41
Saccharate	11, 522
Salicylamate	12, 322
Salicylate	12, 254
Salicylite	12, 244
Santalate	16, 261
Sarcosylate	11, 501
Sebate	14, 498
Selenate	6, 157
Selenite	6, 156
Stearate	17, 112
Stilbesate	12, 181
Styphnate	11, 235
Suberate	13, 212
Succinate	10, 128
Sulphacetate	8, 437
Sulphanilate	11, 298
Sulphanisate	13, 129
Sulphate	6, 154
Sulphite	6, 153
Sulphobenzoate	12, 55
Sulphocamphorate	13, 385
Sulphocinnamate	13, 280
Sulphocymenate	14, 191

Silver Oxyalts

Sulphosalicylate	12, 281
Sulphosomethylate	7, 301
Sulphosuccinate	10, 132
Sulphovinate	8, 428
Tantalate	6, 182
Tartrate	10, 325
Tartromethylate	10, 339
Tartronate	10, 345
Tartrovinate	10, 343
Tellurate	6, 193
Tellurite	6, 193
Terchloracetate	9, 212
Terchlorosulphosomethylate	7, 353
Terebentilate	13, 119
Terebilate	12, 469
Terephthalate	13, 14
Tetrathionate	6, 153
Thiactate	13, 449
Toluylate	13, 9
Trigenate	9, 312
Triphosphate	6, 148
Trithionate	6, 153
Tungstate	6, 182
Uranate	6, 186
Uroxanate	10, 479
Valerate	11, 36
Vanadate	6, 183
Veratrate	13, 355
Vulpate	17, 151
Xanthate	8, 461
Silver Paracyanide	11, 373
„ Peroxide ?	6, 145
„ Persulphomolybdate	6, 183
„ Phosphide	6, 147
„ Platinocyanide with Ammonia	8, 58
„ Platinocyanide and Platinocyanide	8, 58
„ precipitation of, in the metallic state	6, 141, 428
„ preparation of	6, 183
„ properties of	6, 187
„ Protochloride	6, 162
„ Protoselenide	6, 155
„ Protoxide	6, 139
„ purification of	6, 135
„ -purple	6, 194
„ -saltpetre	6, 170
„ -salts	6, 140
„ -salts, action of iodide of ethyl on	13, 451
„ -salts, decomposition of, by light	1, 172
„ -salts, solubility of, in alcohol	7, 272
„ Selenocyanide	8, 125
„ separation of, from argentiferous lead by	

fractional crystallisa- tion	6, 133	Silver and Iridium, alloy	6, 392
Silver, separation of, from the sulphide by the action of nascent hydrogen	6, 134	and Iridium, chloride	6, 392
spitting of	6, 138	and Iron, alloy	6, 195
Suboxide	6, 136	and Iron, carbide	6, 196
Suboxide, stannate of	6, 194	and Iron, sulphide	6, 196
Sulphantimoniate	6, 191	and Lead, alloy	6, 194
Sulphantimonite	6, 189	and Lead, cyanurate	9, 458
Sulpharsenate	6, 188	and Lead, hyposulphite	6, 195
Sulpharsenite	6, 188	and Lead, oxide	6, 195
Sulphide	6, 151	and Lead, sulphide	6, 195
Sulphocarbonate	6, 154	Lead, and Antimony, sul- phide	6, 195
Sulphocyanide	8, 97, 12, 560	and Mercury, nitrate	6, 199
Sulphomolybdate	6, 183	and Molybdenum, alloy	6, 183
Sulphophosphate	6, 155	and Palladium, alloy	6, 357
Sulphophosphite	6, 155	and Phosphorus, sul- phide	6, 155
Sulphotellurite	6, 193	and Platinum, alloy	6, 339
Sulphotungstate	6, 183	and Potassium, alloy	6, 177
Telluride	6, 192	and Potassium, carbo- nate	6, 178
Thiocyanide	8, 115	and Potassium, chloride	6, 179
-vitriol	6, 170	and Potassium, cyanurate	9, 458
and Allyl, nitrate	9, 364	and Potassium, hyposul- phite	6, 178
and Ammonium, chlori- sate	13, 74	and Potassium, iodide	6, 178
and Ammonium, chlo- ride	6, 176	and Potassium, mellitate	10, 12
and Ammonium, cyanu- rate	9, 457	and Potassium, nitrate	6, 179
and Ammonium, hypo- sulphite	6, 178	and Potassium, sulphate	6, 178
and Ammonium, sulphite	6, 174	and Potassium, sulphide	6, 178
Antimony, and Potas- sium, alloy	6, 192	and Potassium, sulphite	6, 178
and Barium, alloy	6, 181	and Potassium, sulpho- cyanide	8, 97
and Barium, chloride	6, 181	and Quinine, nitrate	17, 285
and Barium, nitrite	6, 181	and Rhodium, alloy	6, 368
and Berberine, hyposul- phite	17, 193	and Silicon, alloy	6, 182
and Calcium, chelidonate	12, 421	and Silicon, carbide	6, 182
and Calcium, chloride	6, 182	and Silicon, fluoride	6, 182
and Calcium, citrate	11, 461	and Sodium, chloride	6, 180
and Calcium, hyposul- phite	6, 181	and Sodium, hyposul- phite	6, 179
and Copper, alloy	7, 197	and Sodium, metaphos- phate	6, 179
and Copper, selenide	6, 197	and Sodium, nitrite	6, 181
and Copper, sulphide	6, 197	and Sodium, sulphite	6, 180
and Ethyl, cyanide	13, 458	and Strontium, hyposul- phite	6, 181
Copper, and Gold, alloys	6, 251	and Tellurium, chloride	6, 193
and Gold, alloy	6, 247	and Theobromine, nitrate	12, 473
and Gold, amalgam	6, 251	and Tin, alloy	6, 194
and Gold, separation	6, 201	and Tungsten, alloy	6, 182
and Gold, telluride	6, 250	and Uranium, acetate	8, 393
Gold, and Palladium, alloy	6, 358	and Zinc, alloy	6, 193
and Guanine, nitrate	10, 483	Simple galvanic circuit with two metals and one liquid	1, 341
and Hydrogen, aqueous chloride	6, 166	substances, atomic weights of	1, 43
		trough or cell apparatus, galvanic	1, 425

Sinapate of Baryta . . .	14, 521	Soda, Amylosulphate . . .	11, 56
„ Potash . . .	14, 521	„ Amylotartrate . . .	11, 81
Sinapic acid . . .	14, 520	„ Anchoate . . .	13, 375
Sinapine . . .	14, 523	„ Angelate . . .	10, 415
„ Chloroplatinate . . .	14, 527	„ Antimonate . . .	4, 382
„ Hydrochlorate . . .	14, 526	„ Antimonite . . .	4, 382
„ Hydrosulphocyanate . . .	14, 527	„ with Antimonic oxide . . .	4, 382
„ Nitrate . . .	14, 526	„ Apocrenate . . .	17, 470
„ Sulphates . . .	14, 526	„ Arsenates . . .	4, 295
Sinapoline . . .	10, 39	„ Arsenite . . .	4, 295
„ Simons's . . .	17, 553	„ artificial . . .	3, 79
Sinapolic acid . . .	17, 552	„ Aspartate . . .	10, 234
Sincaline . . .	11, 115; 14, 522	„ Aurate with Chloride of sodium . . .	6, 233
Smethylamine . . .	10, 65	„ Azelate . . .	17, 81
Sinnamine . . .	10, 63	„ Benate . . .	17, 559
Sipeerine . . .	17, 173	„ Benzoate . . .	12, 39
Six-carbon compounds . . .	9, 363	„ Benzoglycolate . . .	12, 66
Six-fifths Silicate of Ferrous oxide . . .	5, 280	„ Betuloretate . . .	17, 404
„ Silicate of Magnesia and Lime . . .	3, 405	„ Biacetate . . .	8, 300
Sixteen-basic Arseniate of Ferric oxide . . .	5, 307	„ Binodate . . .	3, 108
Skin, animal, combination of, with tannic acid . . .	15, 473	„ Binitroethylate . . .	12, 557
Skorodite . . .	5, 306	„ Binitromethylate . . .	12, 493
Slow combustion of organic compounds . . .	7, 84	„ Binitrosalicylate . . .	12, 316
Smaltine . . .	5, 348	„ Bisulphite with Anisylons acid . . .	13, 122
Smilacin . . .	15, 349	„ Bisulphite with Bitter Almond oil . . .	12, 27
<i>Smilax China</i> , preparation of Pariglin from the bark of . . .	16, 99	„ Bisulphite with Cummol . . .	14, 147
Smoking of meat . . .	7, 117	„ Bisulphite with Glyoxal . . .	12, 505
Snails, mucin of . . .	18, 340	„ Bisulphite with Nitrobenzaldehyde . . .	12, 121
Snow-water, purity of . . .	2, 60	„ Bisulphite with Ceanthol . . .	12, 449
Soap . . .	17, 69	„ Bisulphite with Rue-oil . . .	14, 493
„ hard . . .	17, 70, 108	„ Bisulphite with Salicylous acid . . .	12, 242
„ soft . . .	17, 71, 109	„ Bisulphite with Valeraldehyde . . .	11, 19
Soap-acids . . .	7, 229	„ Borates . . .	3, 87
„ -boiler's ley . . .	3, 76	„ Bromacetate . . .	12, 533
„ -stone, English . . .	3, 420	„ Bromate . . .	3, 110
Soda . . .	74	„ Butyrate . . .	10, 554
„ syn. with carbonate of soda . . .	3, 78	„ Butyrate . . .	10, 85
„ Acetates . . .	8, 299	„ Cacodylate . . .	9, 330
„ Acetate with Mercuric Cyanide . . .	8, 333	„ Camphorate . . .	14, 459
„ Acetopropionate . . .	9, 405	„ Capate . . .	14, 487
„ Aconitates . . .	11, 406	„ Caproate . . .	11, 416
„ Acrylate . . .	9, 371	„ Carbolate . . .	11, 151
„ action of, on organic compounds . . .	13, 385	„ Carbonates . . .	3, 77
„ Albuminate . . .	18, 306	„ Carbonate with Silicate of Ferric oxide . . .	5, 283
„ Alizarite . . .	14, 139	„ Chehdonate . . .	12, 416
„ Alloxamate . . .	10, 163	„ caustic . . .	3, 75
„ -alum . . .	3, 325	„ Chlorate . . .	3, 114
„ Aluminate . . .	3, 325	„ Chlorite . . .	3, 114
„ Amidobenzoate . . .	12, 145	„ Chlorobenzoate . . .	12, 114
„ Amylonate . . .	11, 80	„ Chlorosulphosomethylate . . .	7, 302
		„ Cholate . . .	18, 50
		„ Chromate . . .	4, 151

Soda-chrome-alum	4, 152	Soda, Leucate	15, 60
„ Chromite	4, 151	„ -ley	3, 76
„ Chrysammate . .	12, 4	„ -lime, use of, for estimation	
„ Cimicte . .	13, 285	„ of nitrogen in organic	
„ Cinnamate . .	13, 274	„ compounds	7, 87
„ Citraconate ..	10, 420	„ Linoleate ..	16, 307
„ Citrates . .	11, 417	„ Lithofellate ..	17, 377
„ Cobaltite ...	5, 344	„ -liver of Sulphur . .	3, 97
„ Comenate ..	11, 385	„ with Magnesia? . .	3, 251
„ Crenate . .	17, 467	„ Malate ..	10, 214
„ Croconate . .	10, 392	„ Maleates ..	8, 154
„ with Cupric oxide	5, 461	„ Manganate ...	4, 238
„ Cyanate	8, 67	„ Margarate ...	16, 473
„ Cyanurate . .	9, 453	„ Meconate ...	12, 427
„ Di-hypionidite . .	3, 106	„ Mellitate . .	10, 6
„ Elaidate ...	17, 77	„ Mesaconate ..	10, 429
„ Ellagate . .	16, 188	„ Mesitylo-phosphate ..	9, 29
„ Erucate . .	17, 551	„ Mesotype . .	3, 437
„ Ethionate ..	8, 434	„ Metaphosphate . .	3, 95
„ Ethylophosphate . .	8, 400	„ Metatartrate ..	10, 328
„ Ethylosulphite ...	8, 409	„ Methylsalicylate ...	12, 257
„ Ethylsulphobenzoate	12, 64	„ Molybdate . .	4, 73
„ Ethyltrithionate . .	12, 514	„ Monoarsenate . .	4, 297
„ Eugenate . .	14, 205	„ Mono-iodate ...	3, 107
„ -felspar . .	3, 443	„ Mucate . .	11, 506
„ Ferrite . .	5, 271	„ Myristate ..	16, 212
„ Filicate . .	16, 127	„ Naphthionate . .	14, 112
„ Formate ..	7, 277	„ native . .	3, 78
„ Fulminurate . .	10, 560	„ Niccolate . .	5, 385
„ Fumarate ..	10, 26	„ Niobiate . .	4, 19
„ Gaedunate ..	16, 320	„ Nitrammate ...	13, 188, 586
„ Gentianates	16, 180	„ Nitrate . .	3, 117
„ with Glucina . .	3, 302	„ „ compound of, with	
„ Glycocholate ..	18, 59	„ urea ...	7, 372
„ Glycocholonate . .	18, 63	„ Nitrite ...	3, 116
„ Gallate . .	12, 405	„ Nitrobenzoate ..	12, 124
„ Guaiaretate	17, 244	„ Nitroluppurate ..	12, 131
„ with Guanine . .	10, 482	„ Nitrosalicylate . .	12, 309
„ -hauyne . .	3, 317	„ Nitrosopelargonate ..	13, 372
„ Hippurate . .	12, 76	„ Nitrotoluylate . .	13, 22
„ Hydrate . .	12, 78	„ Oenanthate ..	12, 456
„ Hydrate, electrolysis of ..	1, 458	„ Oleate ..	17, 70
„ Hydriodite . .	3, 106	„ Osmamate ...	6, 420
„ Hydrochlorate and Stannite	5, 99	„ Oxalates, ..	9, 127; 13, 515
„ Hyoglycocholate	18, 104	„ Oxamate ...	13, 536
„ Hypobromite	3, 110	„ Palmitate ...	16, 461
„ Hypochlorite	3, 113	„ Pectate . .	15, 407
„ Hypophosphite . .	3, 90	„ Pelopiate ...	4, 28
„ Hyposulphate . .	3, 100	„ Pentathionate ..	3, 99
„ Hyposulphite . .	3, 98	„ Perchlorate ..	3, 115
„ Inosate ..	11, 120	„ Periodate ..	3, 109
„ Iodate ..	3, 106	„ Permanganate . .	4, 238
„ Iodide	3, 105	„ Philoretate ...	13, 310
„ Iodite	3, 106	„ Phosphates ..	3, 90
„ Isobiglycoethylenate . .	15, 234	„ Phosphite ...	3, 90
„ Itaconate ..	10, 426	„ Phthalate ..	13, 12
„ Kinate ..	16, 228	„ Picrate . .	11, 211
„ Lactate	11, 481	„ Platinate . .	6, 324
„ Laurate	15, 47	„ Platinite	6, 323

Soda Plumbate	5, 162	Soda Thiocetate ..	13, 448
„ Plumbite ..	5, 162	„ Thionaphthamate ..	14, 116
„ Propionate ..	9, 405, 10, 553	„ Thiocetamate ..	12, 344
„ Purpurate	10, 198	„ Titanates . . .	3, 485
„ Pyrogallate . . .	11, 401	„ -tourmaline . .	3, 454
„ Pyromucate . . .	10, 583	„ Trithionate ..	3, 99
„ Pyrophosphate . .	3, 98	„ Tungstate . . .	4, 40
„ Pyrotartrate ..	11, 89	„ Tungstate with Fluoride of	
„ Racemate	10, 350	Tungsten and Sodium	4, 47
„ Racemovinate ...	10, 364	„ Turpetholate . . .	17, 455
„ Rhodiate	6, 367	„ Uranate	4, 189
„ Rhodizonate . . .	10, 401	„ Urate	10, 471
„ Ricinelauidate . .	17, 136	„ Usnate	17, 51
„ Roccellate . . .	16, 476	„ Valerate	11, 31
„ Rubianate	16, 41	„ Vanadates . . .	4, 100
„ Saccharates . . .	11, 517	„ Xanthate	8, 456
„ Salicylite	12, 241	„ with Zinc-oxide ..	5, 44
„ Salts	3, 77	„ and Alumina, oxalate	9, 135
„ Santalate	16, 260	„ and Alumina, pyrophos-	
„ Sebate	14, 498	phate	3, 325
„ Selenate	3, 105	„ and Alumina, sulphate .	3, 325
„ Selenites	3, 104	„ and Ammonia, antitartrate	10, 367
„ Silicates	3, 375	„ and Ammonia, arseniate	4, 298
„ Silicate with Silicate of		„ and Ammonia, citrate .	11, 448
Alumina	3, 420	„ and Ammonia, phosphate	3, 118
„ -soap	17, 70	„ and Ammonia, pyrophos-	
„ solution of	3, 76	phate	3, 118
„ -spodumene	3, 444	„ and Ammonia, racemate .	10, 351
„ Stannates	5, 98	„ and Ammonia, sulphate .	3, 119
„ Stearate	17, 109	„ and Ammonia, tartrate .	10, 282
„ Stannite	5, 98	„ Ammonia, and Manganous	
„ Styphnate	11, 232	oxide, pyrophosphate	4, 240
„ Suberate	13, 208	„ and Arsenious acid, race-	
„ Succinate	10, 117	mate	10, 356
„ Sulphacetate . . .	8, 300	„ and Arsenious acid, tartrate	10, 296
„ Sulphanilate . . .	11, 298	„ and Auric oxide, hyposul-	
„ Sulphate	3, 100	phite	6, 232
„ Sulphate with Carbonate of		„ and Aurous oxide, hyposul-	
Lime	3, 217	phite	6, 231
„ Sulphindigotate . .	13, 63	„ and Aurous oxide, sulphite	6, 232
„ Sulphite	3, 99	„ and Baryta, metaphosphate	3, 165
„ Sulphocymenate . .	14, 189	„ and Baryta, pyrophosphate	3, 164
„ Sulphophloretate . .	13, 313	„ and Baryta, tartrate ..	10, 286
„ Sulphosalicylate . .	12, 277; 278	„ and Bismuth-oxide, bismu-	
„ Sulphovinate . . .	8, 421	thate	4, 447
„ Sylvate	17, 321	„ and Boracic acid, tartrate	10, 281
„ Tannate	15, 465	„ and Cerous oxide, sulphate	3, 273
„ Tantalate	4, 10	„ and Chromic oxide, sulphate	4, 152
„ Tartarate	10, 280	„ and Cobalt-oxide, carbonate	5, 344
„ Tartrelate	10, 334	„ and Cobalt-oxide, metaphos-	
„ Tartromethylate ...	10, 339	phate	5, 344
„ Tartrovinate	10, 342	„ and Cupric oxide, carbonate	5, 461
„ Taurochenocholate ...	18, 132	„ and Cupric oxide, sulphate	5, 462
„ Taurocholate	18, 67	„ Cuprous oxide, hyposulphite	5, 461
„ Tellurates	4, 421	„ and Ferric oxide, Carbonate	5, 272
„ Telluride	4, 420	„ and Ferric oxide, pyrophos-	
„ Tellurites... . .	4, 420	phate	5, 272
„ Tetrachlorosulphosomethylate	7, 353	„ and Ferric oxide, basic sul-	
„ Tetraethionate	3, 99	phate	5, 273

Soda and Ferrous oxide, pyrophosphate ..	5, 272	Soda and Rhodic oxide, nitrate	6, 367
„ and Glucina, carbonate	3, 502	„ and Silica, carbonate	3, 386
„ and Lead-oxide, carbonate	5, 162	„ and Silver-oxide, hyposulphite	6, 179
„ and Lead-oxide, hyposulphite ..	5, 162	„ and Silver-oxide, metaphosphate	6, 179
„ and Lead-oxide, sulphate	5, 163	„ and Silver-oxide, nitrite	6, 181
„ and Lime, lactate	11, 485	„ and Silver-oxide, sulphite	6, 180
„ and Lime, malate.	10, 219	„ and Strontia, tartrate	10, 287
„ and Lime, silicate	3, 394	„ Titanic oxide, carbonate	3, 486
„ and Lime, sulphate	3, 217	„ and Tungstous oxide, tungstate	4, 46
„ and Lime, tartrate	10, 290	„ and Uranic oxide, acetate	8, 307
„ and Lithia, phosphate ..	3, 132	„ and Uranic oxide, arseniate ...	4, 313
„ and Lithia, tartrate	10, 285	„ and Uranic oxide, carbonate ..	4, 189
„ and Magnesia, borate	3, 251	„ and Uranic oxide, pyrophosphate ..	4, 190
„ and Magnesia, carbonate	3, 251	„ and Vanadic acid, phosphate ..	4, 100
„ and Magnesia, metaphosphate ..	3, 252	„ and Yttria, carbonate	3, 293
„ and Magnesia, pyrophosphate	3, 252	„ and Zinc-oxide, carbonate	5, 45
„ and Magnesia, sulphate	3, 253	„ and Zinc-oxide, sulphate	5, 45
„ and Magnesia, tartrate	10, 291	Sodalite	3, 437, 461
„ and Manganous oxide, sulphate	4, 239	Sodio-antimonic oxalate	10, 533, 12, 523
„ and Mercuric oxide, hyposulphite	6, 103	„ -antimonic Tartrate	10, 307
„ and Molybdic oxide, carbonate	4, 73	„ -chromic Oxalate	9, 141
„ and Molybdic oxide, hydrofluuate	4, 74	„ -cupric Oxalate ...	9, 166
„ and Molybdous oxide, hydrofluuate ..	4, 74	„ -cupric Racemate ..	10, 360
„ and Nickel-oxide, metaphosphate ..	5, 385	„ -cupric Tartrate ..	10, 321
„ and Nitric oxide, sulphite	3, 118	„ -ferric Citrate	11, 458
„ and Palladious oxide, nitrite	6, 355	„ -ferric Oxalate ..	9, 159
„ and Platonic oxide, nitrate	6, 326	„ -platinous Oxalate ..	13, 529
„ and Platonic oxide, sulphate	6, 325	„ -stannic Oxalate ..	9, 154
„ and Platinous oxide, sulphite	6, 324	Sodium ..	3, 73
„ and Potash, antitartrate	10, 367	„ action of, on organic compounds	7, 145
„ and Potash, arsenate ..	4, 299	„ Alloys ..	3, 121
„ and Potash, carbonate ..	3, 119	„ Amalgam	6, 103
„ and Potash, chromate	4, 152	„ Amide ..	3, 116
„ and Potash, insolmate ..	13, 320	„ Antimonide ...	4, 382
„ and Potash, maleate ?	8, 155	„ Arsenide	4, 264
„ and Potash, metatartrate	10, 328	„ Aurosulphide	6, 230
„ and Potash, nitrate ..	3, 120	„ Bismuthide	4, 447
„ and Potash, oxalate ? ..	9, 127	„ Biomide	3, 109
„ and Potash, phosphate	3, 119	„ Bromide with Cyanide of Mercury	8, 221
„ and Potash, pyrophosphate ..	3, 120	„ Bromo-aurate	6, 232
„ and Potash, racemate ..	10, 351	„ Bromoplatinate ..	6, 326
„ and Potash, sulphate	3, 120	„ Chloride ..	3, 110
„ and Potash, sulphochromate ..	4, 152	„ Chloride, preparation of carbonate of soda from	3, 79
„ and Potash, tartrate ..	10, 282	„ Chloride with Aurate of Soda	6, 233
„ Potash, and Boracic acid, racemate	10, 352	„ Chloride with Cane-sugar ..	15, 283
„ and Rhodic oxide, acetate	8, 334	„ Chloride, chromate of ...	4, 152

Sodium, Chloride with Cyanide of		Sodium Sulphomolybdate	4, 74
Mercury	8, 21	Sulphoplatinate	6, 324
Chloride with Ethylchloride of Platinum	8, 392	Sulphosulphate	10, 35
Chloride with Glucose	15, 325	Sulphostannate	5, 98
Chloride, sulphate of	3, 115	Sulphotellurite	4, 422
Chloride with Urea	7, 372	Sulphotungstate	4, 42
Chloriridate	6, 391	Sulphotungstate	4, 42
Chloroaurate	6, 232	Thiocyanide	8, 114
Chloropalladate	6, 355	and Aluminium, Chloride	3, 326
Chloroplatinate	6, 326	Aluminium, Fluoride	3, 326
Chloroplatinite	6, 326	Ammonium, Sulpharsenate	4, 298
Chlororhodiate	6, 367	Antimony, Chloride	4, 387
Chlorostannate	5, 98	Bismuth, Chloride	4, 418
Cobaltocyanide	7, 494	Cadmium, Chloride	5, 64
-compound, olive-coloured	3, 116	Cadmium, Oxalate	13, 326
Cuprocyanide	8, 7	Carbon, Sulphide	3, 104
Cyanide	7, 417	Copper, Chloride	5, 462
-ethyl	13, 491	Gold, Sulphide	6, 230
Ethylate	13, 420	Hydrogen, Fluoride	3, 116
Ferricyanide	7, 478	Hydrogen, Sulphide	3, 97
Ferrocyanide	7, 478	Iridium, Chlorides	6, 390
Fluoboride	3, 116	Iron, Sulphide	5, 272
Fluopalladate	6, 355	Lead, alloy	5, 162
Fluoplatinate	6, 326	Lead, Bromide	5, 163
Fluoride	3, 115	Lead, Chloride	5, 163
Fluoride with Silica	3, 387	Lead, Iodide	5, 163
Fluoride with Sesquifluoride of Chromium	4, 152	Lead, Sulphide	5, 162
Fluotellurate	4, 422	Magnesium, Chloride	3, 253
Hyposulpharsenite	4, 297	Manganese, Fluoride	4, 240
Iodide	3, 105	Manganese, Sulphide	4, 239
Iodide, compounds of, with Cyanide of Mercury	8, 21	Mercury, Bromide	6, 104
Iodoaurate	6, 232	Mercury, Chloride	6, 104
Iodoplatinate	6, 325	Mercury, Iodide	6, 104
Iodostannite	5, 98	Palladium, Mellite	10, 13
Iodotellurate	4, 422	Platinum, alloy	6, 323
Lichenate	16, 196	Potassium, alloy	3, 119
Mellonide	9, 393	Potassium, amalgam	6, 105
Mercaptide	8, 345	Potassium, Ferricyanide	7, 479
Monosulphide	3, 96	Potassium, Ferrocyanide	10, 503
Nitroprusside	8, 130	Potassium, Sulpharsenate	4, 299
Perbromide, hydrated	3, 110	Ruthenium, Chloride	6, 404
Peroxide	3, 77	Silicium, Fluoride	3, 386
Phosphide	3, 89	Silver, Chloride	6, 180
Platinocyanide	8, 52, 10, 507	Tantalum, Fluoride	4, 11
Platino-platinocyanide	8, 52		
-salts, solubility of, in alcohol	8, 266		
Selenocyanide	8, 123		
Suboxide	8, 74		
Sulphantimonate	4, 384		
Sulphantimonite	4, 383		
Sulpharsenite	4, 297		
Sulpharsenite	4, 297		
Sulphides	4, 96		
Sulphocyanide	8, 83		

- Sodium and Tin, alloy . . . 5, 98
 " Titanium, Fluoride . . . 3, 486
 " Vanadium, Fluoride . . . 4, 101
 " = Zinc, alloy . . . 5, 44
 " Zinc, Cyanide . . . 7, 425
 " Zinc, Iodide . . . 5, 45
 " Zinc, Lactate . . . 11, 488
 Soft parts of plants, phenomena exhibited by, during fermentation . . . 7, 101
 Soil, vegetable, formation of humus in . . . 17, 458
 Solaneic acid, *see* Potato-fat.
 Solanene . . . 18, 88
 Solanidine . . . 18, 85
 Solanine . . . 15, 349; 18, 90
 " reactions of, with potassium iodide, potash chromate, phosphomolybdic acid, stannous chloride, and cupric sulphate . . . 18, 96
 " salts . . . 18, 95
 Solanostearic acid, *see* Potato-fat
 Solar light, composite nature of . . . 1, 180
 " rays, electricity of ? . . . 1, 319
 Solder . . . 5, 180
 Solid Bromide of Carbon . . . 7, 341
 " compounds, table of specific heats of . . . 1, 244
 " dielectrics . . . 1, 312
 " natural fats . . . 18, 385
 Solidification of gases . . . 1, 285
 " gases produced by the affinity of ponderable bodies for the ponderable base of the gas . . . 1, 289
 Solids, adhesion between . . . 1, 30
 " cohesion of . . . 1, 7
 " expansion of, by heat . . . 1, 232
 " heat-condensing powers of . . . 1, 221
 " solution of, in water . . . 2, 69
 " and liquids, adhesion between . . . 1, 27
 " and liquids, relations between the specific gravities and atomic weights of . . . 1, 54, 68
 Soluble glass . . . 3, 371
 " containing potash and soda . . . 3, 387
Solutio Mercurii calide parata . . . 6, 75
" frigide parata . . . 6, 75
 Solution, compounds formed by . . . 1, 86
 Solution, simultaneous, of two salts in water . . . 2, 71
 Solutions, alcoholic . . . 8, 257
 " aqueous . . . 2, 65
 " aqueous, boiling points of . . . 1, 269, 270
 " aqueous, maximum density of . . . 1, 225
 " saccharine, circular polarisation of . . . 15, 244
 Soot, animal matter of . . . 15, 159
 " of burning wood . . . 7, 85
 Sorbite . . . 15, 350
Sorghum saccharatum, preparation of cane-sugar from . . . 15, 242
 Sorrel, salt of . . . 9, 125
 " preparation of oxalic acid from . . . 9, 112
 Soubeiran's so-called Mercurous salt . . . 6, 96
 Space, temperature of . . . 1, 221
 Spasmodic . . . 12, 367
 Spanish Pepper, resins of . . . 17, 450
 Spar, bitter . . . 3, 253
 " heavy . . . 3, 151
 " tabular . . . 3, 388
 Sparteine . . . 13, 152; 16, 282
 Spathic Iron-ore . . . 5, 219
 Special Chemistry . . . 1, 160
 Specific gravities and atomic weights of compounds, relations between . . . 1, 66, 68
 gravities and atomic weights of elements, relations between . . . 1, 52
 gravities of inorganic gases . . . 1, 279, 280
 gravities of organic compounds . . . 7, 46
 gravities of organic compounds in the gaseous state . . . 7, 52
 heat . . . 1, 238
 heat of atoms . . . 1, 243
 heat of the atoms of compounds . . . 1, 248
 heat of compounds, variation of, according to density . . . 1, 247
 heat of gases, table of heats of liquids, according to Person . . . 1, 255
 * heats of liquids, according to Regnault . . . 1, 247
 heats of liquids, according to Favre and Silbermann . . . 1, 248
 heats of liquid and solid compounds, table of . . . 1, 244

Specific heats of liquid and solid elements . . .	1, 241	<i>Spiritus nitri fumans</i> . . .	2, 402
„ heats of metals (Regnault) . . .	1, 242	„ <i>sulphuratus Beguini</i> . .	2, 454
„ rotatory power . .	15, 245	„ <i>sulfuris per campanum</i> . . .	2, 171
„ volumes, see Volume.		„ <i>Veneris</i> . . .	8, 282
<i>Specificum purgans Paracelsi</i> .	3, 39	„ <i>vin</i> . . .	8, 194
Spectra formed by a prism of double-refracting spar, equal heating powers of the two .	1, 166	„ <i>vitrioli coagulabilis</i> .	2, 39
Spectrum, chemical rays of .	1, 174	Spirol . . .	11, 139
„ of heat-rays . .	1, 165	Spiroyl Bibromide . . .	12, 287
„ luminous or coloured .	1, 164	„ Bromide . . .	12, 284
„ solar, heating power of different parts of .	1, 165	„ Iodide . . .	12, 283
„ thermic, discontinuity of . .	1, 166	Spitting of silver . . .	6, 138
Specular Iron . . .	5, 191	Spodumene . . .	3, 444
Speiskobold . . .	5, 348	Sponge, composition of .	18, 369
Spelter . . .	5, 1	Spongin . . .	18, 369
Spencer's electrotyping apparatus .	1, 504	Spongy Platinum . . .	6, 277
Spermaceti fat . . .	16, 347	„ Platinum, effect of, in inducing combustion .	2, 26
„ preparation of cetyllic alcohol from . .	16, 344	Spontaneous decomposition of organic compounds .	7, 90
„ preparation of lauric acid from . .	15, 45	„ inflammation of organic bodies .	7, 85
„ preparation of myristic acid from . .	16, 209	„ precipitation .	1, 113, 185
Sperm-oil, . . .	16, 321	Spruce Fir, oil of . . .	16, 316
„ preparation of phytosteleic acid from .	16, 317	„ Fir, fatty oil of . .	16, 316
Sphæro-siderite . . .	5, 219	Spurious Sarcocolla . .	3, 440
Sphene . . .	3, 488	<i>Squalus maximus</i> , oil of . .	16, 322
Spheroidal state of liquids (Leidenfrost's experiment) .	1, 277	Squill oil . . .	14, 400
Spigelia bitter . . .	18, 242	„ resin of . . .	17, 451
Spilanthin . . .	18, 242	Stable manure, formation of humus in . . .	17, 458
Spindle-tree oil . . .	17, 98	Stag's horn, ossein in . .	18, 352
Spinelane . . .	3, 456	Stahl, his philogistic theory .	1, 4
Spinelle . . .	3, 327	Stannamyls . . .	11, 129, 131
Spiræas, herbaceous, occurrence of salicin in . . .	16, 431	Stannates . . .	5, 76
Spiræa, oil of . . .	12, 235	Stannate of Ammonia . .	5, 93
<i>Spiræa ulmaria</i> , preparation of salicylic acid from the flowers of . .	12, 247	„ Aurous oxide ? . . .	6, 239
„ <i>ulmaria</i> , preparation of salicylic acid from the flowers of .	12, 235	„ Baryta . . .	5, 99
„ -yellow . . .	16, 512	„ Cobalt-oxide . . .	5, 354
Spirit of Alum . . .	3, 322	„ Chromic oxide ? . . .	5, 101
„ Copper . . .	8, 282	„ Cupric oxide . . .	5, 484
„ Hartshorn . . .	8, 423	„ Cuprous oxide . . .	5, 483
„ Pyroxylic . . .	7, 258	„ Lead-oxide . . .	5, 180
„ of Wine . . .	8, 194	„ Lime . . .	5, 100
Spirits . . .	7, 168	„ Magnesia . . .	5, 100
„ <i>aeruginis</i> . . .	8, 282	„ Manganous oxide . .	5, 102
„ <i>fumans Labarraque</i> . . .	5, 87	„ Mercuric oxide . . .	6, 125
„ <i>nitri dulcis</i> . . .	8, 218	„ Mercurous oxide . .	6, 125
		Stannates of Potash . .	5, 95
		„ Soda . . .	5, 98
		Stannate of Stannic oxide, anomalous . . .	5, 71
		„ Strontia . . .	5, 99
		„ Suboxide of Silver .	6, 194
		„ Zinc-oxide . . .	5, 105
		Stannethyls . . .	9, 96 ; 13, 505
		„ preparation of . . .	9, 91
		„ general properties of .	9, 92

Stannethyl, six-fourths	9, 106	Stannite and Hydrochlorate of	
Stannethylum	9, 106	Strontia	5, 99
Stannic Acetate	8, 310	Stannmethyl	9, 506
„ acid	5, 71	Stannous acetate	8, 310
„ acid, anomalous, hydrate		„ Arsenate ?	5, 102
„ of	5, 73	„ Bihydrosulphate	5, 80
„ acid, ordinary hydrate		„ Borate	5, 77
„ of	5, 74	„ Bromate	5, 84
„ Antimoniate	5, 103	„ Bromide	5, 84
„ Arsenite ?	5, 102	„ Chloride	5, 84
„ Biethyl	13, 506	„ Chloroplatinate	6, 335
„ Bromide	5, 84	„ Chromate	5, 102
„ Callutannate	15, 515	„ Citraconate	10, 421
„ Chloride	5, 88	„ Formate	7, 280
„ Chloride, Hydrocyanate of	8, 149	„ Gallate	12, 409
„ Chloride with Nitric		„ Hydrate	5, 69
„ oxide	5, 93	„ Hydrobromate	5, 84
„ Chloride with Sulphur		„ Hydrochlorate	5, 85
„ and Phosphorus	5, 89	„ Hydrofluante	5, 92
„ Chloride, sulphate of	5, 91	„ Hydrosulphate	5, 78
„ Chloride with Terehlo-		„ Hyposulphate	5, 81
„ ride of Phosphorus	5, 90	„ Hyposulphate ?	5, 81
„ Chromate	5, 102	„ Iodate	5, 83
„ Ethide	13, 506	„ Iodide	5, 82
„ Ethylomethyl	13, 509	„ Lactate	11, 489
„ Formate	7, 280	„ Nitrate	5, 92
„ Hydrochlorate	5, 88	„ Oxalate	
„ Hydrofluante	5, 92	„ 9, 152, 10, 584; 13, 528	
„ Iodate	5, 83	„ Oxide	5, 68
„ Iodide	5, 83	„ Persulphomolybdate	5, 101
„ Lactate	11, 489	„ Phosphate	5, 77
„ Molybdate	5, 101	„ Racemate	10, 357
„ Nitrate	5, 92	„ Salts	5, 69
„ Oxalate	9, 153	„ Sulphantimoniate	5, 104
„ Oxide	5, 71	„ Sulpharseniate	5, 103
„ Persulphomolybdate	5, 101	„ Sulpharsenite	5, 102
„ Phosphite	5, 77	„ Sulphate	5, 81
„ Salts	5, 71	„ Sulphide	5, 78
„ Selenite	5, 82	„ Sulphite	5, 81
„ Sulpharseniate	5, 103	„ Sulphocarbonate	5, 82
„ Sulpharsenite	5, 102	„ Sulphocyanide	8, 87
„ Sulphate	5, 82	„ Sulphomolybdate	5, 101
„ Sulphide	5, 80	„ Sulphotellurite	5, 104
„ Sulphocarbonates	5, 82	„ Sulphotungstate	5, 101
„ Sulphomolybdate	5, 101	„ Tannate	15, 467
„ Sulphotellurite	5, 104	„ Tartrate	10, 311
„ Sulphotungstate	5, 101	„ Tetrathionate	5, 81
Stannite of Potash	5, 95	„ Tungstate	5, 100
„ Soda	5, 98	Stannum	5, 66
„ and Hydrochlorate of		Staphisagrine	18, 23
„ Ammonia	5, 95	Star-anise oil	14, 197
„ and Hydrochlorate of		Starch	15, 72
„ Baryta	5, 99	„ *alteration of, in contact	
„ and Hydrochlorate of		„ with gluten or diastase	7, 98
„ Magnesia	5, 100	„ American	15, 77
„ and Hydrochlorate of		„ combinations of, with	
„ Potash	5, 98	„ acids	15, 100
„ and Hydrochlorate of		„ combinations of, with	
„ Soda	5, 99	„ bases	15, 100

Starch, combination of, with bromine	15, 100	Starch, decomposition of, by tartaric acid	15, 87
„ combination of, with iodine	15, 97	„ decomposition of, by yeast	15, 92
„ combination of, with water	15, 93	„ explosive	15, 106
„ composition of	15, 80	„ formation of dextroglucose from	15, 306
„ decomposition of, by acetic acid (glacial)	15, 97	„ -granules, diameters of	15, 79
„ decomposition of, by ammonia	15, 87	„ -granules, structure of	15, 78
„ decomposition of, by bichloride of tin	15, 89	„ iodide of	15, 97
„ decomposition of, by bromine	15, 537	„ literature of	15, 72
„ decomposition of, by chloride of zinc	15, 89	„ -paste	15, 95
„ decomposition of, by chlorine	15, 83	„ -paste, reactions of	15, 102
„ decomposition of, by cinchona-alkaloids	15, 90	„ preparation of	15, 76
„ decomposition of, by combustion in the air	15, 82	„ preparation of dextrin from	15, 187
„ decomposition of, by diastase	15, 90	„ preparation of dextroglucose from	15, 311
„ decomposition of, by dry distillation	15, 81	„ preparation of formic acid from	7, 272
„ decomposition of, by fluoride of iron	15, 87	„ properties of	15, 77
„ decomposition of, by gluten	15, 91	„ soluble, Béchamp's	15, 102
„ decomposition of, by heat	15, 81	„ solutions of	15, 101
„ decomposition of, by hydrochloric acid	15, 86	„ solution, precipitation of, by tannic acid	15, 473
„ decomposition of, by nitric acid	15, 84	„ sources of	15, 73
„ decomposition of, by osmic acid	15, 90	„ specific gravity of	15, 79
„ decomposition of, by oxalic acid	15, 87	„ -sugar	15, 305
„ decomposition of, by oxidation	15, 82	„ table of quantities of water absorbed by	15, 95
„ decomposition of, by phosphoric acid	15, 86	Staurokite	3, 411
„ decomposition of, by heating with potash	15, 88	Steam, electricity of	1, 338
„ decomposition of, by soluble Prussian blue	15, 90	„ latent heat of	1, 233, 284
„ decomposition of, by quicklime	15, 89	„ total quantity of heat in	1, 283—285
„ decomposition of, by saliva	15, 92	Stearamide	17, 147
„ decomposition of, by fusion with saltpetre and potash-hydrate	15, 88	Stearanilide	17, 147
„ decomposition of, by heating with soda-hydrate	15, 88	Stearate of Ammonia	17, 107
„ decomposition of, by sulphuric acid	15, 84	„ Amyl	17, 123
		„ Baryta	17, 110
		„ Camphyl	17, 125
		„ Capryl	17, 124
		„ Cetyl	17, 128
		„ Cholesteryl	18, 119
		„ Copper	17, 112
		„ Dulcetyl	17, 128
		„ Ethyl	17, 115
		„ Ethylene	17, 116
		„ Lead	17, 111
		„ Lime	17, 111
		„ Magnesia	17, 111
		„ Mannityl	17, 127
		„ Mercury	17, 112
		„ Methyl	17, 114
		„ Opianyl	17, 124
		„ Orcin	17, 124
		„ Pinityl	17, 125, 126
		„ Potash	17, 108
		„ Quercetyl	17, 126
		„ Silver	17, 112

Stearate of Soda	17, 109	Steinheilite	3, 434
„ Soda, electrolysis of	1, 462	Stenhouse's Alkaloid from	
„ Strontia	17, 113	kidney-beans	10, 408
Stearerin	16, 400	Stibmethylethylum ..	9, 85; 13, 500
Stearic acid	17, 103	<i>Sterculia foetida</i> , oil of the seeds	
acid, atomic weight of	7, 236	of	17, 99
acid, melting points and		Sternbergite	6, 196
mode of solidification		Stethal	17, 103
of mixtures of, with		Stibamyls	11, 125
lauric, with myristic,		Stibbiamyl	11, 129
and with palmitic acid	17, 113	Stibethyl	9, 79, 10, 523
acid, preparation of suc-		Acetate	10, 527
cnic acid by oxidation of	10, 112	Bromide	9, 83, 10, 526
anhydride	17, 137	Chloride	9, 83, 10, 526
and Lauric acids, melt-		-compounds	13, 499
ing points and solidifi-		Cyanide	9, 85
cation of mixtures of ..	17, 113	Iodide	9, 82; 10, 525
and Margaric acids,		Oxide	9, 81; 10, 524
melting points and		salts	9, 82; 10, 525
mode of solidification of		Selenide	9, 82
mixtures of	17, 114	Sulphantimonite ..	9, 85
Margaric, and Oleic		Sulphide	9, 81; 10, 525
acids, Chevreul's		Stibethylum	9, 85, 10, 527
method of preparing	16, 355	Stibmethyl	7, 321
Palmitic, and Myristic		Stibmethylum	7, 322
acids, melting points		Stibtramyl	11, 126
and mode of solidifica-		Stilbtriethyl, <i>see</i> Stibethyl.	
tion of mixtures of ..	17, 114	Stilbene	12, 167
Stearic acid	17, 78	Bromide	12, 170
Stearin, composition of ..	7, 235	Peroxide	12, 178
isomeric modifications		Sulphide	12, 168
of	7, 244	Stilbesate of Silver ..	12, 181
Stearins	17, 117	Stilbesic acid	12, 181
Stearochlorhydrin	17, 122	Stilbic acid	12, 182
Stearone	17, 129	Stilbite	3, 443
Stearophanic acid	16, 366	of Potash	12, 180
Stearoptenes syn. with Cam-		Stilbous acid	12, 178
phors	7, 167	<i>Stillingia sebifera</i> , fat from the	
Stearoptene of oil of Anise	14, 191	berries of	16, 388
Bergamot oil	13, 345	Stillstearic acid	16, 366
Bitter Almond		Stilpnomelane	5, 285
oil	12, 173	Stoichiometrical calculation	1, 61—64
Cassia oil	17, 395	proportion or	
oil of Cloves	14, 187	number	1, 42
Lemon oil	14, 302	<i>Storax calamita</i>	17, 392
Parsley oil	15, 41	liquid	17, 391
Peppermint oil	14, 450	liquid, preparation of	
Rose oil	14, 395	cinnamic acid from ..	13, 270
Steatite	3, 40	solid	17, 392
Steel	3, 399; 5, 206	volatile oil of liquid ..	13, 1
action of acids on	5, 209	Strasburg Turpentine ..	13, 17
alleged magnetisation of,		Strawberries, red colouring	
by the violet rays of the		matter of	16, 529
spectrum	1, 167	Strength of Affinity ..	1, 136—145
alloys of	5, 210	Striegisane	3, 310
amount of carbon in ..	5, 207	Strontia	3, 168
tempering of	5, 207	Acetate	8, 302
Steeping of wood to prevent pu-		Acetate with Uranic	
trefaction	7, 113	acetate	8, 308

Strontia, Acetonitrate . .	13, 443	Strontia, Niccolate . .	5, 386
" Alloxanate . .	16, 164	" Nitranisate . .	13, 138, 586
" Aluminate . .	3, 327	" Nitrate . .	3, 179
" Amidobenzoate . .	12, 164	" Nitrate of, with stron-	
" Amylosulphate . .	11, 57	tio-antimonie tartrate	10, 308
" Anisate . .	13, 126	" Nitrite . .	3, 179
" Arachidate . .	17, 371	" Nitrobenzoate . .	12, 125
" Arseniate . .	4, 302	" Nitrotoluylate . .	13, 22
" Arsenite . .	4, 302	" Oleate . .	17, 71
" Aurate with Chloride		" Oxalates . .	9, 129, 13, 516
of Strontium . .	6, 234	" Perchlorate . .	3, 179
" Azelaate . .	17, 81	" Periodate . .	3, 176
" Benzoate . .	12, 39	" Pelargonate . .	13, 370
" Dimethylphosphate . .	12, 483	" Permanganate . .	4, 242
" Borates . .	3, 171	" Phosphates . .	3, 172
" Bromate . .	3, 177	" Phosphite . .	3, 172
" Butyrate . .	10, 86	" Picrate . .	11, 222
" Camphorate . .	14, 459	" Piperate . .	15, 10
" Caprate . .	14, 488	" Platinate . .	6, 328
" Caproate . .	11, 417	" Purpurate . .	10, 198
" Carbonates . .	3, 170	" Pyromecconate . .	10, 441
" Chelidonate . .	12, 417	" Pyromucate . .	10, 385
" Chlorate . .	3, 178	" Pyrotartrate . .	11, 90
" Chlorite . .	3, 178	" Racemates . .	10, 353
" Chromate . .	4, 153	" Rhodizionate . .	10, 402
" Chrysammate . .	12, 4	" Rucinoleate . .	17, 134
" Cinnamate . .	13, 275	" Saccharates . .	11, 518
" Citrates . .	11, 449, 450	"* Sahcylamate . .	12, 322
" Comenate . .	11, 386	" -salts . .	3, 169
" Croconate . .	10, 392	" Selenite . .	3, 175
" Ethylophosphate . .	8, 400	" Silicate . .	3, 388
" Eugenate . .	14, 206	" Silicate with silicate of	
" with Fluxes . .	3, 180	alumina . .	3, 420
" Formate . .	7, 278	" Stannate . .	5, 99
" Fumarate . .	10, 27	" Stearate . .	17, 110
" Gallate . .	12, 406	" Styphnate . .	11, 233
" Gambodate . .	17, 418	" Suberate . .	13, 209
" Hippurate . .	12, 78	" Succinate . .	10, 119
" Hydrate . .	3, 168	" Suerate . .	15, 281
" Hydrate, electrolysis of	1, 458	" Sulphate . .	3, 174
" Hydrochlorate and		" Sulphate with fluor-	
Stannite . .	5, 99	spar . .	3, 219
" Hypobromite . .	3, 177	" Sulphite . .	3, 171
" Hypophosphite . .	3, 171	" Sulphovinate . .	8, 422
" Hyposulphate . .	3, 174	" Tartrate . .	10, 286
" Hyposulphite . .	3, 173	" Tartrelate . .	10, 235
" Iodate . .	3, 176	" Tartromethylate . .	10, 339
" Iodo-aurate . .	6, 234	" Tellurate . .	4, 424
" Isobiglycoethylenate	15, 235	" Tellurite . .	4, 424
" Itaconate . .	10, 426	" Tetrathionate . .	3, 174
" Kinate . .	16, 228	" Thiocetate . .	13, 449
" Lactate . .	11, 482	" Tungstate . .	4, 43
" Malate . .	10, 215	" Urate . .	10, 474
" Maleates . .	3, 156	" Valerate . .	11, 32
" Manganate . .	4, 242	" Vanadiates . .	4, 102
" Margarate . .	16, 362	" -water . .	11, 169
" Melitate . .	10, 6	" and Alumina, oxalate	9, 135
" Molybdate . .	4, 76	" and Lead-oxide, Hypo-	
" Mucate . .	11, 507	sulphite . .	5, 164

Strontia and Lime, carbonate . . .	3, 219	Strontium, Sulphovanadate . . .	4, 102
„ and Lime, compound of . . .	3, 219	„ and Carbon, sulphide . . .	3, 175
„ and Mercuric oxide, hypo- sulphite . . .	6, 107	„ and Mercury, chloride . . .	6, 107
Strontium and Mercury, biomide . .	6, 107	„ and Mercury, iodide . . .	6, 107
Strontia and Potash, silicate . . .	3, 388	„ and Silicium, fluoride . . .	3, 388
„ and Potash, tartrate . . .	10, 287	Struvite . . .	3, 245
„ and Silver-oxide, hypo- sulphite . . .	6, 181	Strychnine . . .	17, 479
„ and Soda, tartrate . . .	10, 287	„ and Bibromide of Ethylene, compounds obtained from . . .	17, 512
Strontian . . .	3, 170	„ combination of, with iodine . . .	17, 489
„ phosphorus . . .	1, 193	„ decompositions of . . .	17, 484
Strontio-antimonic tartrate . . .	10, 307	„ detection of, in beer . . .	17, 483
„ -chromic oxalate . . .	9, 142	„ detection of, in cases of poisoning . . .	17, 482
„ -ferric oxalate . . .	9, 160	„ memoirs relating to . . .	17, 479
„ -uramic acetate . . .	13, 444	„ with Mercuric Chlo- ride . . .	17, 497
Strontium . . .	3, 167	„ with Mercuric Cya- nide . . .	17, 500
„ -amalgam . . .	6, 106	„ with Picrotoxin . . .	17, 504
„ Ammonio-bromide . . .	3, 180	„ precipitation of, by nitroprusside of sodium . . .	17, 502
„ Ammonio-chloride . . .	3, 180	„ precipitation of, by phosphantimonic acid . . .	17, 495
„ Bromide . . .	3, 176	„ precipitation of, by phosphomolybdic acid . . .	17, 495
„ Bromide with Cyanide of Mercury . . .	8, 22	„ preparation . . .	17, 480
„ Chloride . . .	3, 177	„ properties . . .	17, 483
„ Chloride with Aurate of Strontia . . .	6, 234	„ reaction of, with gallic, tannic, oleic, and margaric acids . . .	17, 504
„ Chloride with Cyanide of Mercury . . .	8, 22	Strychnine-salts . . .	17, 502
„ Chloro-aurate . . .	6, 234	Acetate . . .	17, 502
„ Chloroplatinate . . .	6, 328	Antitartrate . . .	17, 503
„ Chlorostannate . . .	5, 99	Arsenate . . .	17, 496
„ Chlorostannite . . .	5, 99	Arsenite . . .	17, 496
„ -compound of Man- nite . . .	15, 366	Betuloretinate . . .	17, 504
„ Cyanide . . .	12, 494	Carbonate . . .	17, 490
„ Ferrocyanide . . .	7, 482	Chlorate . . .	17, 493
„ Fluoride . . .	3, 179	Chloro-aurate . . .	17, 498
„ Hyposulpharsenite . . .	4, 302	Chlorocadmiate . . .	17, 496
„ Iodide . . .	3, 175	Chloromercurate . . .	17, 497
„ Iodide, with Cyanide of Mercury . . .	8, 22	Chloropalladite . . .	17, 498
„ Iodostannite . . .	5, 99	Chloroplatinate . . .	17, 498
„ Mellonide . . .	9, 393	Chlorozincate . . .	17, 496
„ Peroxide . . .	3, 170	Chromate . . .	17, 495
„ Phosphide . . .	3, 171	Croconate . . .	17, 504
„ Platinocyanide . . .	10, 508	Dextrotartrate . . .	17, 503
„ Platino-platinidocya- nide . . .	8, 53	Hippurate . . .	17, 504
„ -salts, solubility of, in alcohol . . .	8, 267	Hydriodate . . .	17, 493
„ Selenides . . .	3, 175	Hydrobromate . . .	17, 493
„ Selenocyanide . . .	8, 123	Hydrochlorate . . .	17, 493
„ Sulphantimoniate . . .	4, 389	„ with Mercuric Cyanide . . .	17, 500
„ Sulphides . . .	3, 173		
„ Sulphocyanide . . .	8, 84		
„ Sulphomolybdate . . .	4, 76		
„ Sulphostannate . . .	5, 99		
„ Sulphotellurite . . .	4, 424		
„ Sulphotungstate . . .	4, 44		

Strychnine-salts	17, 499	Styrax alcohol	13, 256
Hydrocyanate	17, 499	<i>Styrax Benzoin</i> , resin of ...	17, 383
Hydroferrocyanate	17, 499	„ <i>officinalis</i> , storax ob-	
Hydrofluorate	17, 494	tained from	17, 392
Hydroplatinocyanate	17, 501	Styrol	13, 1
Hydrosulphate	17, 491	„ Bromide	13, 15
Hydrosulphocyanate	17, 501	„ Chloride	13, 16
Hyposulphite	17, 491	„ Oxide	13, 6
Iodate	17, 492	Styrone	13, 256
Mellitate	17, 502	Subamide of Hydrogen	
Nitrate	17, 491	(Kane's), <i>see</i> Ammonium.	
Oxalate	17, 502	Subbromide of Tellurium ...	4, 410
Perchlorate	17, 493	Subchloride of Tellurium ...	6, 45
Periodate	17, 492	„ Mercury	6, 45
Phosphate	17, 490	Suberamic acid	13, 221
Picrate	17, 504	Suberamide	13, 221
Sulphate	17, 491	Suberanilide	13, 222
„ with Cupric Sul-		Suberanic acid	13, 223
phate	17, 496	Suberate of Ammonia ...	13, 208
„ with Mercuric Chlo-		„ Ethyl	13, 213
ride	17, 497	„ Methyl	13, 211
Tartrate	17, 503	Suberates, metallic ...	13, 208
Strychnine and Antimony, tar-		Suberic acid	13, 201
trate of	17, 504	„ ether	13, 213
„ separation of, from		Suberin	15, 115
Brucine	17, 482	Suberyl Hydride	13, 203
„ solutions of	17, 488, 504	Subimate, corrosive ...	6, 53
„ sources of	17, 480	Sublimation	1, 288
Strychnine-bromethylammonium		„ crystallisation ef-	
hydrated oxide of	17, 513	fected by	1, 8
Strychnochromin	17, 505	Sublimed products of destructive	
<i>Strychnos toxicaria</i> , Urari ob-		distillation	7, 81
tained from	17, 592	Submurate of Mercury ...	6, 45
Sturgeon's battery ...	1, 424	Subnitrate of Mercury ...	6, 69
Styphnate of Ammonia ..	11, 231	Suboxides	2, 40
„ Baryta	11, 232	Suboxide of Antimony ..	4, 323
„ Cadmium	11, 233	„ Arsenic	4, 252
„ Cobalt	11, 234	„ Bismuth?	4, 428
„ Copper	11, 234	„ Cadmium?	5, 53
„ Copper and Ammo-		„ Hydrogen?	2, 79
nium	11, 235	„ Iron	5, 187
„ Copper and Potas-		„ Lead?	5, 107
sium	11, 235	„ Mercury	6, 5
„ Iron	11, 234	„ Silver	6, 138
„ Lead	11, 234	„ Uranium	4, 159
„ Lime	11, 233	„ Sodium	3, 74
„ Magnesia	11, 233	„ Zinc?	5, 4
„ Manganese	11, 233	Substitution, Dumas' theory of	7, 15
„ Nickel	11, 234	„ formation of com-	
„ Potash	11, 232	pounds by	1, 50, 66, 68, 72
„ Silver	11, 235	„ or Metalepsy in	
„ Soda	11, 232	organic com-	
„ Strontia	11, 237	pounds	7, 71
„ Urea	13, 405	Sub-sulphide of Arsenic ...	4, 271
Styphnic acid	11, 228	Succinamide	10, 143
Styrazin	13, 286	Succinanil	11, 316
„ Cinnamate	13, 289	Succinanic acid	11, 317
Styrazol	13, 256	Succinanilide	11, 366

Succinate of Alumina ..	10, 122	Succinin ..	13, 580
„ Ammonia ..	10, 115	Succinomannitan ..	15, 377
„ Aniline ..	11, 263	<i>Succinum</i> ..	17, 430
„ Baryta ..	10, 119	Succinyl Chloride ..	10, 136
„ Benzylene ..	12, 225	„ Bibenzoyl and Bisulphophenyl, binitride of ..	12, 160
„ Berberine ..	17, 196	Succinyl-bisulphophenyl-bibenzamide ..	12, 160
„ Bismuth ..	10, 124	Succisterene ..	16, 248
„ Cadmium ..	10, 124	Sucrate of Baryta ..	15, 284
„ Cerium ..	10, 122	„ Cupric, colloidal ..	51, 539
„ Cetyl ..	16, 379	„ Ferric, colloidal ..	15, 539
„ Chromic ? ..	10, 123	„ of Lead ..	15, 288
„ Chromous ..	10, 123	„ Lime ..	15, 385, 539
„ of Cinchonidine ..	17, 614	„ Magnesia ..	15, 288
„ Cinchonine ..	17, 216	„ Strontia ..	15, 284
„ Cobalt ..	10, 127	„ Uranyl, colloidal ..	15, 539
„ Cupric ..	10, 128	Sucrates, colloidal condition of ..	15, 538
„ of Ethyl ..	10, 133	„ Metallic ..	15, 284
„ Ferric ..	10, 126	Sugar of Acorns ..	15, 210
„ Ferrous ..	10, 126	„ the Cane, <i>see</i> Cane-sugar.	
„ of Glucina ..	10, 122	„ detection of, in urine ..	15, 312
„ Lead ..	10, 124	„ formation of ammonia by eremacausis of aqueous solution of, in contact with air ..	7, 294
„ Lime ..	10, 119	„ formation of, from glycerin ..	13, 567
„ Magnesia ..	10, 121	„ inverse or inverted ..	15, 254, 336
„ Magnesia and Potash ..	10, 122	„ produced by decomposition of kinovin ..	15, 345
„ Manganous ..	10, 123	„ of Lead ..	8, 316
„ Mercuric ..	10, 128	„ liquid, from Honey ..	15, 336
„ Mercurous ..	10, 128	„ from Ononin ..	15, 346
„ of Methyl ..	10, 132	„ from Phlorizin ..	15, 347
„ Methyl-salicyl ..	12, 258	„ from Pimpinlin ..	15, 847
„ Molybdenum ..	10, 122	„ preparation of Formic acid from ..	7, 372
„ Nickel ..	10, 127	„ preparation of Furfural by oxidation of ..	10, 371
„ Potash ..	10, 116	„ preparation of Lactic acid from ..	11, 476
„ Quinidine ..	17, 302	„ preparation of Oxalic acid from ..	9, 113
„ Quinine ..	17, 290, 615	„ from Quercitrin ..	15, 848; 16, 535
„ Silver ..	10, 128	„ from Saponin ..	15, 348
„ Soda ..	10, 117	„ solutions, circular polarisation of ..	15, 244
„ Strontia ..	10, 119	„ various modes of fermentation of ..	7, 98
„ Tin ..	10, 124	„ -cane, preparation of sugar from ..	15, 242
„ Thorina ..	10, 122	„ -cane, Wax of ..	16, 81
„ Urea ..	13, 405	„ -maple ..	15, 240
„ Uranic ..	10, 123	Sulphacetate of Soda ? ..	8, 300
„ of Yttria ..	10, 122	Sulphacetates ..	8, 437
„ Zinc ..	10, 124	Sulphacetonyl, Hydrosulphate of ..	9, 14
„ Zirconia ..	10, 122		
Succinic acid ..	10, 108		
„ acid, formation of, in vinous fermentation ..	15, 275		
„ acid, preparation of, from amber ..	10, 110		
„ acid, preparation of, by fermentation of malate of lime ..	10, 113		
„ acid, preparation of, by oxidation of stearic acid and other fatty matters ..	10, 112		
„ anhydride ..	10, 135		

Sulphacetothymic acid ...	14, 420	Sulpharseniate of Cadmium ...	5, 66
Sulphacetic acid ...	8, 412	" Calcium ...	4, 305
Sulphamethylano ...	7, 307	Sulpharseniates of Cerium	4, 809
Sulphamide ...	2, 455	Sulpharsenate, Chromic ...	4, 313
" (of Dumas) ...	2, 458	" of Cobalt ...	5, 351
Sulphamidonates ...	15, 104	" Cupric... ..	5, 474
Sulphamylic acid ...	11, 55	" Ferric	5, 309
Sulphan and Sulphanides ...	2, 16	" Ferrous	5, 309
Sulphanilic acid ...	11, 296	" of Glucinum . .	4, 310
Sulphanisic acid ..	13, 128, 586	" Lead ..	5, 174
Sulphamsolide	12, 262	" Lithium ..	4, 299
Sulphanisyl, hydride ...	13, 131	" Magnesium ..	4, 307, 390
Sulphantimonates ...	4, 856	" Magnesium and Ammo-	
Sulphantimonate of Ammonium	4, 389, 372	nium .	4, 308
" Barium ...	4, 388	" Manganese....	4, 315
" Bismuth ...	4, 450	" Mercuric ..	6, 118
" Cadmium ...	5, 66	" Mercurous ..	6, 118
" Calcium ..	4, 389	" of Nickel ..	5, 392
" Cobalt .	5, 353	" Platinic	6, 332
" Copper ...	5, 476	" of Potassium ..	4, 293
" Copper and Iron ...	5, 492	" Silver ..	6, 188
" Ferrous	5, 311	" Sodium .	4, 297
" of Lead ..	5, 177	" Sodium and Ammonium	4, 298
" Manganous ..	4, 391	" Sodium and Potassium...	4, 299
" Mercuric	6, 121	" Stannic ...	5, 108
" Mercurous ..	6, 121	" Stannous ...	5, 108
" of Nickel .	5, 393	" Uranic	4, 314
" Potassium ..	4, 380	" of Yttrium ..	4, 309
" Potassium, with Anti-		" Zinc ..	5, 50
monate of Potash ...	4, 381	" Zirconium ..	4, 311
" Silver ..	6, 191	Sulpharsenic acid	4, 277
" Sodium .	4, 384	Sulpharsenious acid ..	4, 278
" Stannous ..	5, 104	Sulpharsenites	4, 275
" of Strontium ..	4, 389	Sulpharsenite of Ammonium ...	4, 288
" Uranium....	4, 391	" Antimony ..	4, 392
" Zinc	5, 50	" Auric	6, 288
Sulphantimonie acid	4, 854	" of Barium ...	4, 301
Sulphantimonites	4, 858	" Bismuth	4, 449
Sulphantimonite of Barium ...	4, 388	" Cadmium ...	5, 65
" Cuprous ...	5, 476	" Calcium	4, 305
" Ferrous ..	5, 311	" Cerous	4, 309
" of Lead	5, 175	" Chromic ..	4, 312
" Potassium ..	4, 378	" of Cobalt . .	5, 351
" Silver ..	6, 189	" Cupric	5, 474
" Sodium ...	4, 383	" Ferric ..	5, 309
" Stibethyl	9, 85	" Ferrous ..	5, 309
Sulphantimonious acid, amor-		" of Glucinum ..	4, 310
phous ..	4, 340	" Lead... ..	5, 174
" acid, crystal-		" Lithium ...	4, 299
lised	4, 337	" Magnesium ..	4, 307
Sulpharseniates	4, 777	" Mercuric ...	6, 118
Sulpharseniate of Antimony	4, 392	" Mercurous	6, 118
" Auric ..	6, 288	" Molybdic	4, 312
" of Barium	4, 301	" of Nickel ..	5, 392
" Bismuth	4, 449	" Platinic ...	6, 382

Sulpharsenite of Potassium ...	4, 293	Sulphate of Baryta with Fluoride of Calcium	3, 219
„ Silver ...	6, 188	„ Baryta with Indigo oxide ...	6, 391
„ Sodium ...	4, 297	„ Bebirine ...	17, 172
„ Stannous ...	5, 102	„ Benzidine ...	11, 339
„ Stannic ..	5, 102	„ Benzylene ..	12, 225
„ Uranic	4, 314	„ Berberine	17, 189
„ of Yttrium ...	4, 309	„ Diamidobenzoic acid	12, 150
„ Zinc ...	5, 49	„ Diamidobenzylene	12, 150
„ Zirconium ..	4, 310	„ Dibromallylamine ..	13, 549
Sulphates, action of, upon alcohol ...	13, 419	„ Dichloride of Sulphur	2, 345
„ alkaline, electrolysis of ..	1, 461	„ Dichlorobenzylene...	12, 117
„ compounds of, with double silicates ...	3, 456	„ Diplumbic Triethyl	13, 511
„ metallic	2, 188	„ Diethyl ...	9, 89
Sulphate of Acediamine ..	12, 546	Sulphates of Bismuth-oxide	4, 435
„ Acetylum ..	10, 539	Sulphate of Blue oxide of Osmium ...	6, 411
„ Alanine ..	9, 435	„ Boric Fluoride ...	2, 364
„ Allyl and Hydrogen	13, 543	„ Brown Oxide of Chromium ...	4, 128
Sulphates of Alumina ...	3, 312	„ Brucine ...	17, 579
Sulphate of Alumina and Ammonia ...	3, 318	„ Butyl ...	10, 105
„ Alumina and Ferrous oxide ..	5, 276	„ Cacaotheine ...	17, 359
„ Alumina and Lithia	3, 326	„ Cadmic oxide	5, 58
„ Alumina and Magnesia ...	3, 329	„ Cadmic oxide and Potash ..	5, 63
„ Alumina and Manganoxy oxide ...	4, 242	„ Caffeine ...	13, 231
„ Alumina and Methylamine	13, 481	„ Caprylamine	13, 220
„ Alumina and Potash	3, 321	„ Carbon ...	7, 128
„ Alumina and Soda	3, 325	„ and Carbonate of Lead-oxide	5, 138
„ Alumina and Zinc-oxide	5, 46	„ of Carbyl ...	8, 412
„ Amarine ...	12, 196	„ Casein ...	13, 314
„ Amidobenzoic acid	12, 145	Sulphates of Ceric oxide	3, 269
„ Amidocinnamic acid	14, 175	Sulphate of Ceric oxide and Potash	3, 273
„ Ammon, acid	2, 460	„ Ceroso-ceric oxide..	3, 269
„ Ammon, deliquescent	2, 461	„ Cerous oxide ...	3, 268
„ Ammon, neutral ..	2, 458	„ Cerous oxide and Ammonia	3, 272
Sulphates of Ammonia ...	2, 462	„ Cerous oxide and Potash	3, 272
Sulphate of Ammonio-chloride of Sulphur ...	2, 437	„ Cerous oxide and Soda ...	3, 273
„ Amylamine	11, 106	„ Chelerythrine ...	17, 159
„ Aniline ...	11, 258	„ Chelidonia ...	17, 165
„ Anthranilic acid ...	12, 328	„ Chinoline ...	13, 248
„ Antimonic oxide ...	4, 360	„ Chloraniline ...	11, 283
„ Aribine ...	17, 563	„ Chloride of Potassium ...	3, 63
„ Arianne ...	17, 570	„ Chloride of Selenium?	2, 346
„ Arsenethylum ...	9, 79	„ Chloride of Sodium	3, 115
„ Arsenious acid ...	4, 280	„ Chlorobenzene ...	11, 175
„ Asparagine ...	10, 245	„ Chlorococaine ...	17, 40
„ Aspartic acid ...	10, 232	„ Chlorogenine ...	13, 190
„ Atropine ...	16, 454	„ Chloronitroharmane	13, 114
„ Auric oxide ...	6, 211	„ Chromic Acid? ...	4, 123
„ Baryta ...	3, 151	„ Chromic Oxide ...	4, 125
„ Baryta, electrolysis of	1, 461		

Sulphate of Chromic Oxide and Ammonia	4, 142	Sulphate of Cymidine	14, 219
" Chromic Oxide and Potash	4, 147	" Cystine	9, 439
" Chromic Oxide and Soda	4, 152	" Ether, tribasic	10, 518
" Chromous Oxide	4, 125	" Ethyl	8, 413
" Chromous Oxide and Potash	4, 147	" Ethylamine	9, 59; 13, 480
" Cinchonidine	17, 224, 228, 611	" Alumina and Ethylamine	13, 481
" Cinchonine	17, 206	" Ethylene-brucine	17, 589
" Cobaltoso-cupric of Cobalt-oxide	5, 496 5, 333	" Ethylostannethyl	9, 105
" Cobalt-oxide and Ammonia	5, 340	" Ethylquimine	17, 308
" Cobalt-oxide and Potash	5, 344	" Ethylstrychnine	17, 511
" Cobalt-oxide and Zinc-oxide	5, 354	" Didymium	3, 281
" Cocaine	16, 302	" Ferrico-ammonic	5, 269
" Codeine	17, 33	" Ferrico-potassic	5, 268
" Conine	13, 159	" of Ferric oxide	5, 241
" Copper, Electrolysis of	1, 463	" Ferric oxide and Ammonia	5, 262
" Copper and Strychnine	17, 496	" Ferric oxide and Potash	5, 268
" Corydaline	17, 608	" Ferroso-ammonic	5, 269
" Cratinine	10, 258	" Ferroso-cupric	5, 492
" Creatine	10, 254	" of Ferroso-ferric oxide and Magnesia	5, 274
" Cumidine	13, 349	" Ferroso-potassic	5, 268
" Cupranilium	11, 260	" of Ferrous oxide	5, 237
" Cuprico-ammonic	5, 451	" Ferrous oxide and Ammonia	5, 261
" Cuprico-potassic	5, 459	" Ferrous oxide and Potash	5, 263
" Cuprico-sodic	5, 462	" Ferrous oxide and Zinc-oxide	5, 314
" of Cupric oxide	5, 425	" Ferrous oxide, Zinc-oxide, and Ammonia	5, 314
Sulphates of Cupric oxide and Ammonia	5, 450	" Furfurine	10, 380
Sulphate of Cupric oxide and Cobalt oxide	5, 496	" Glaucine	17, 161
" Cupric oxide and Ferrous oxide	5, 492	Sulphates of Glucina	3, 297
" Cupric oxide with Fluoride of Calcium	5, 463	Sulphate of Glucina and Potash	3, 301
" Cupric oxide and Magnesia	5, 463	" Glycocol	9, 252
" Cupric oxide, Magnesia, and Ammonia	5, 463	" Guanine	10, 481
" Cupric oxide and Nickel-oxide	5, 497	" Harmaline	16, 117
" Cupric oxide, Nickel-oxide, and Potash	5, 497	" Harmine	16, 106
" Cupric oxide and Potash	5, 459	" Hydriodic acid	2, 268
" Cupric oxide and Soda	5, 462	" Hydroberberine	17, 254
" Cupric oxide, Zinc-oxide, and Potash	5, 481	" Hydrobromic acid	2, 284
		" Hydrochloric acid	2, 341
		" Hydrocyanharmanine	16, 121
		" Iodethylquimidine	17, 310, 318
		" Iodide of Sulphur	2, 350
		" Iodine	2, 267
		" Iodocinchonidine	17, 313
		" Iodocinchonine	17, 313
		" Iodoquinine	17, 313
		" Iodoquinidine	17, 313
		" Iodoquinine	17, 312
		" Iodostrychnine	17, 492
		" Iridic oxide	6, 878

Sulphate of Iridious oxide . . .	6, 377	Sulphate of Mercuric oxychloride	6, 64
Sulphates of Iron . . .	5, 237	„ Mercurioso-mercuric	„
Sulphate of Lanthanic oxide . .	3, 278	oxide . . .	6, 30
„ Lanthanic oxide . . .	„	Mercurous chloride	6, 64
and Potash . . .	3, 279	Mercurous oxide . . .	6, 28
„ Lanthopine . . .	18, 197	„ Methstannamyl . .	11, 132
„ Laudanine . . .	18, 198	„ Methyllamne . .	7, 316
„ Lead-oxide . . .	5, 136	„ Methylbrucine . .	17, 586
„ Lead oxide and	„	„ Methylene-stanna-	„
Ammonia . . .	5, 159	myl . . .	11, 132
„ Lead-oxide with	„	„ Methyl . . .	7, 304
Fluorspar . . .	5, 164	„ Methyloplumbethyl	9, 107
„ Lead-oxide and	„	„ Methylostannethyl	9, 103
Potash . . .	5, 161	„ Methyl-strychnine	17, 508
„ Lead-oxide and Soda	5, 163	Sulphates of Molybdic acid . .	4, 62
„ Lime . . .	3, 200	Sulphate of Molybdic oxide . .	7, 62
„ Lime and Baryta . .	3, 218	„ Molybdic oxide and	„
„ Lime with Fluoride	„	Potash . . .	4, 72
of Calcium . . .	3, 220	Sulphates of Molybdous oxide . .	4, 62
„ Lime and Potash . .	3, 215	Sulphate of Morphine . . .	16, 480
„ Lime and Soda . . .	3, 217	„ Naphthylamine . .	14, 99
„ Lithia . . .	3, 129	„ Narcotine . . .	16, 143
„ Lithia and Ammo-	„	„ Nickel-oxide . . .	5, 373
nia . . .	3, 132	„ Nickel-oxide and	„
„ Lophine . . .	12, 201	Ammonia . . .	5, 381
„ Magnesia . . .	3, 236	„ Nickel-oxide and	„
„ Magnesia, electrolysis	„	Cupric oxide . . .	5, 497
of . . .	1, 461	„ Nickel-oxide and	„
„ Magnesia and Ammo-	„	Ferrous oxide . . .	5, 397
nia . . .	3, 248	„ Nickel-oxide and	„
„ Magnesia and	„	Potash . . .	5, 384
Potash . . .	3, 250	„ Nickel-oxide and	„
„ Magnesia and Soda	3, 253	Zinc-oxide . . .	5, 394
„ Manganic oxide and	„	„ Nicotine . . .	14, 227
Ammonia . . .	4, 233	„ Niobic acid * . . .	4, 18
„ Manganoso-manga-	„	„ Nitraniline . . .	11, 291
nic oxide, . . .	4, 224	„ Nitranisidine . . .	12, 267
„ Manganous oxide . .	4, 221	„ Nitric oxide . . .	2, 445
„ Manganous oxide	„	„ Nitric oxide, com-	„
and Ammonia . . .	4, 233	bined with hydrated	„
„ Manganous oxide	„	sulphuric acid . . .	2, 447
and Potash . . .	4, 238	„ Nitrocodeme . . .	17, 41
„ Manganous oxide	„	„ Nitrochormaline . .	18, 124
and Soda . . .	4, 239	„ Nitroharmane . . .	18, 100
„ Melaniline, . . .	11, 358	„ Nitropapaverine . .	17, 261
„ Menaphthylamine	14, 126	„ Nitrotyrosine . . .	18, 363
„ Metispermene . . .	17, 58	„ Osmic oxide . . .	6, 411
„ Mercurialine . . .	18, 201	„ Osmious oxide . . .	6, 411
„ Mercuric oxide . . .	6, 28	„ Oxycinchonine . . .	17, 282
„ Mercuric oxide and	„	„ Palladious oxide . .	6, 346
Ammonia . . .	6, 80	„ Palladious oxide and	„
„ Mercuric oxide with	„	Potash . . .	6, 353
Phosphide of Mer-	„	„ Papaverine . . .	17, 258
cury . . .	6, 32	„ Paricine . . .	17, 572
„ Mercuric oxide with	„	„ Pelopie acid . . .	4, 22
Sulphide of Mer-	„	„ Pentachloride of	„
cury . . .	6, 32	Phosphorus . . .	2, 341
„ Mercuric oxide and	„	„ Permanganic acid ?	4, 224
Potash . . .	6, 99	„ Petinine . . .	10, 151

Sulphate of Phenyl Chloride ...	11, 175	Sulphate of Stannamyl	11, 181
" Phloramne ...	15, 70	" Stannethyl	9, 97
" Phosphuretted Hy-		" Stannic chloride ...	5, 91
drogen ...	2, 220	" Stannic oxide	5, 82
" Phthalidine	13, 34	" Stannous oxide	5, 81
" Picoline	11, 268	" Stibethyl 9, 82; 10, 525	
" Piperidine... ..	10, 448	" Stibmethylethylum ...	13, 501
" Platinamine ...	6, 314	" Stibmethylium ...	7, 325
" Platinic oxide	6, 290	" Stibzamylium ...	11, 128
" Platinic oxide and		" Strontia	3, 174
Alumina	6, 330	" Strontia with Fluor-	
" Platinic oxide and		spar	3, 219
Baryta	6, 327	" Strychnine ...	17, 491
" Platinic oxide and		" Strychnine with	
Potash	6, 321	Mercuric Chloride	17, 497
" Platinic oxide and		" Styrchnine-brom-	
Soda	6, 325	ethylammonium	17, 513
" Platinous oxide . .	6, 289	" Tantalac acid ...	4, 5
" Platinous oxide and		" Tantalac acid and	
Potash ?	6, 321	Potash	4, 9
Sulphates of Potash ..	3, 39	" Tellurethyl	3, 383
Sulphate of Potash and Ammo-		" Telluric oxide . .	4, 407
nia	3, 71	" Telluromethyl	10, 493
" Potash with Chloride		" Tellurous oxide ? ...	4, 407
of Potassium	3, 71	Sulphates of Terchloride of Sul-	
" Potash with Chro-		phur... ..	2, 342
mate of Potash . .	4, 150	Sulphate of Tertravinylium	13, 489
" Potash, luminosity		" Thebaine	13, 169
accompanying the		" Thebenime ...	18, 210
crystallisation of ..	1, 206	" Thorina	3, 333
" Propylamine ...	9, 412	" Thorina and Potash	3, 335
" Quinidine	17, 299	" Titanic oxide ...	3, 478
" Quinine	17, 277	" Titanic oxide and	
" Quinine and Iron ..	17, 284	Potash	3, 485
" Rhodic oxide	6, 382	" Toluidine	12, 336
" Rhodic oxide and		" Tungstic acid ? . .	4, 34
Potash	6, 365	Sulphates of Uranic oxide	4, 176
" Rhodious oxide . .	6, 362	Sulphate of Uranic oxide and	
" Rhoeaginine	18, 208	Ammonia	4, 185
" Ruthenic oxide	6, 399	" Uranic oxide and	
" Sarcosine	9, 433	Lime	4, 191
" Seminaphthylamine	14, 108	" Uranic oxide and	
" Sesquioxide of Iri-		Potash	4, 188
dium	6, 378	" Uranso-uranic ox-	
" Sesquioxide of Os-		ide	4, 176
mium and Ammonia	6, 415	" Uranso-uranic ox-	
" Silica	3, 360	ide and Potash	4, 188
" Silver-oxide ...	6, 154	Sulphates of Uranous oxide . .	4, 174
" Silver-oxide and		Sulphate of Uranous oxide and	
Potash	6, 178	Ammonia	4, 185
Sulphates of Sinapine ...	14, 526	" Uranous oxide and	
Sulphate of Solanine	18, 95	Potash	4, 187
" Soda	3, 100	" Urea	7, 369
" Soda, preparation		" Uric acid ? . .	10, 466
of carbonate from	3, 79	Sulphates, Vanadic ...	4, 93
" Soda and Ammonia	3, 119	" of Vanadic acid ...	4, 93
" Soda with Carbo-		Sulphate of Vanadic acid and	
nate of Lime	3, 217	Potash	4, 100
" Soda and Potash ...	3, 120	" Vanadic oxide, basic	4, 93

Sulphate of Vanadic oxide and Potash ..	4, 100	Sulphide of Bisethyl ..	9, 89
„ Veratrine ..	18, 182	Sulphides of Bismuth ..	4, 434
„ Xylidine ..	18, 147	Sulphide of Bismuth and Copper	5, 477
Sulphates of Yttria ..	3, 287	„ Bismuth, Copper, and Lead ..	5, 488
Sulphate of Yttria and Potash	3, 290	„ Bismuth and Nickel ..	5, 390
Sulphates of Zinc-oxide ..	5, 22	„ Bromosalicene ..	12, 287
Sulphate of Zinc-oxide, electro-lysis of ..	1, 463	„ Cadmium ..	5, 57
„ Zinc-oxide and Ammonia ..	5, 39	Sulphides of Calcium ..	3, 196
„ Zinc oxide and Magnesia ..	5, 46	„ Calcium with Chloride of Calcium ..	3, 219
„ Zinc-oxide and Potash ..	5, 43	„ Calcium with Fluoride of Calcium ..	3, 220
„ Zinc-oxide and Soda ..	5, 45	„ Calcium with Lime ..	3, 219
„ Zirconia ..	3, 344	„ Calcium and Sodium ..	3, 217
„ Zirconia and Ammonia ..	3, 347	„ Capryl ..	13, 193
„ Zirconia and Potash	3, 347	„ Carbon ..	2, 200
Sulphatoxygen ..	2, 16	„ Carbon, solution of, in alcohol ..	8, 264
Sulphazotic Chloride of Sulphur	2, 475	„ Carbon and Barium ..	3, 153
Sulphessal ..	12, 188	„ Carbon and Calcium ..	3, 202
Sulphetheric acid ..	10, 518	„ Carbon and Lithium ..	3, 129
Sulphethersulphates ..	8, 436	„ Carbon and Magnesium ..	3, 239
Sulphethyl ..	8, 337	„ Carbon and Manganese ..	4, 225
„ with Bichloride of Platinum ..	8, 339	„ Carbon, phosphoretted ..	2, 219
„ Carbonate of ..	8, 445	„ Carbon with Piperidine ..	15, 15
„ with Protochloride of Mercury ..	8, 339	„ Carbon and Potassium ..	3, 42
„ Sulphite of? ..	8, 404	„ Carbon and Sodium ..	3, 104
Sulphide of Acetyl ..	9, 356	„ Carbon and Strontium ..	3, 175
„ Allyl ..	9, 372, 13, 540	„ Cerium ..	3, 267
„ Alphen, &c. ..	9, 494	„ Cetyl ..	16, 367
„ Aluminium ..	3, 311	„ Chloride of Carbon ..	7, 357
„ Amyl ..	11, 38	Sulphides of Chromium ..	4, 123
„ Antimonic ..	4, 354	Sulphide of Chromium and Potassium ..	4, 157
„ Antimonious, amorphous ..	4, 340	Sulphides of Cobalt ..	5, 331
„ Antimonious, crystallised ..	4, 337	Sulphide of Cobalt with Arsenide of Cobalt ..	5, 351
„ of Antimony, Copper, and Lead ..	5, 487	Sulphides of Copper ..	5, 422
„ Antimony with Iodide of Antimony ..	4, 364	Sulphide of Copper and Barium ..	5, 463
„ Antimony, Silver, and Lead ..	6, 195	„ Copper and Calcium ..	5, 463
„ Arsemous ..	4, 273	„ Copper and Iron ..	5, 489
„ of Arsenetriethyl ..	9, 75	„ Copper and Lead ..	5, 485
„ Auric ..	6, 210	„ Copper and Magnesium ..	5, 463
„ Aurous ..	6, 210	„ Copper and Potassium ..	5, 458
Sulphides of Barium ..	3, 146	Sulphides, double, of Hydrogen and the Alkali-metals ..	2, 266
Sulphide of Barium with Fluoride of Calcium ..	3, 218	Sulphide of Ethyl ..	8, 337
„ Barium and Potassium ..	3, 164	„ Ethyl, action of chlorine on ..	10, 513
„ Benzoyl ..	12, 106	Sulphides of Ethylene ..	8, 354
„ Benzylene ..	12, 49		

Sulphide of Ethylene and Hydrogen? . . .	8, 403	Sulphides of Methyl, action of chlorine on . . .	10, 500
" Ferric . . .	5, 231	" Methyl, chlorinated . . .	10, 500
" Ferrous . . .	5, 228	" Methyl, Terechlorinated . . .	7, 355
" of Ferrous oxide? . . .	5, 235	Sulphides of Nickel . . .	5, 369
" Glucinum . . .	3, 297	Sulphide of Nickel and Iron . . .	5, 396
Sulphides of Gold . . .	6, 210	" Niobium . . .	4, 18
Sulphide of Gold and Potassium . . .	6, 227	" Nitrobenzylene . . .	12, 184
" Gold and Sodium . . .	6, 230	" Nitrogen . . .	2, 442
Sulphides of Hydrogen . . .	2, 193	Sulphides of Osmium . . .	6, 410
Sulphide of Hydrogen and Ammonium . . .	2, 452	Sulphide of Othyl . . .	9, 356
" Hydrogen and Barium . . .	3, 149	" Palladium . . .	6, 346
" Hydrogen and Bibromosalicine . . .	12, 290	" Pelopium . . .	4, 22
" Hydrogen and Potassium . . .	3, 31	" Phosphoric . . . 2, 217; 5, 217	
" Hydrogen and Strontium . . .	3, 173	" Phosphorous . . .	2, 215
Sulphides of Iridium . . .	6, 376	Sulphides of Phosphorus . . . 2, 207—219	
Sulphide of Iridium and Potassium . . .	6, 384	Sulphide of Phosphorus, liquid, solubility of, in alcohol . . .	8, 264
Sulphides of Iron . . .	5, 227	" Phosphorus and Zinc . . .	5, 26
Sulphide of Iron and Barium . . .	5, 273	" Phosphorus and Silver . . .	6, 155
" Iron and Calcium . . .	5, 274	Sulphides of Platinum . . .	6, 286
" Iron and Potassium . . .	5, 268	Sulphide of Platinum and Potassium . . .	6, 321
" Iron and Sodium . . .	5, 272	Sulphides of Potassium . . .	3, 30
" Lanthanum . . .	3, 273	Sulphide of Potassium, action of, on organic compounds . . .	7, 145
Sulphides of Lead . . .	5, 132	Sulphides of Rhodium . . .	6, 362
Sulphide of Lead and Barium . . .	5, 163	" Ruthenium . . .	6, 399
" Lead and Sodium . . .	5, 162	Sulphide of Silicon . . .	3, 359
" Lithium . . .	3, 128	" Silicon and Potassium . . .	3, 373
" Lithium and Hydrogen . . .	3, 128	" Silver . . .	6, 151
" Magnesium . . .	3, 234	" Silver and Copper . . .	6, 197
" Manganese . . .	4, 218	" Silver and Iron . . .	6, 196
" Manganese and Potassium . . .	4, 237	" Silver and Lead . . .	6, 195
" Manganese and Sodium . . .	4, 239	" Silver and Potassium . . .	6, 178
" Mercuric, amorphous . . .	6, 25	" Sodium . . .	3, 96
" Mercuric, crystalline . . .	6, 19	" Stannethyl . . .	6, 97
" Mercurous . . .	6, 19	" Stannic . . .	5, 80
Sulphides of Mercury . . .	6, 19	" Stannous . . .	5, 78
Sulphide of Mercury and Barium . . .	6, 105	" of Stibethyl . . . 9, 81, 10, 525	
" Mercury with Mercuric Nitrate . . .	6, 76	" Stibethylum . . .	10, 528
" Mercury with Mercuric Sulphate . . .	6, 32	" Stibmethylethylum . . .	13, 501
" Mercury and Potassium (hydrated) . . .	6, 98	" Stibmethylethylum . . .	7, 324
Sulphides, metallic . . .	2, 221	" Stilbene . . .	12, 163
" metallic, electrolysis of . . .	2, 456	" Tantalum . . .	4, 5
" metallic, reduction of silver chloride by . . .	6, 423	" Tellurethyl . . .	8, 383
		Sulphides of Tellurium . . .	4, 405
		Sulphide of Thorium . . .	3, 333
		Sulphides of Tin . . .	5, 78
		Sulphide of Titanium . . .	3, 477
		" Triethylphosphine . . .	12, 524
		Sulphides of Tungsten . . .	4, 32
		Sulphide of Uranium . . .	4, 173

Sulphide of Yttrium . . .	3, 287	Sulphite of Manganous oxide . .	4, 220
„ Zinc . . .	5, 19	„ Nickel-oxide . .	5, 372
„ Zirconium . . .	3, 344	„ Nitroharmaline . .	16, 124
Sulphindigotates . . .	13, 61	„ Nitric oxide . .	2, 444
Sulphindigotic acid . . .	13, 58	„ Nitric oxide and	
„ acid, effect of sun-		Ammonia . .	2, 492
shine on the		„ Nitric oxide and	
colour of . . .	7, 95	Potash . .	3, 70
Sulphisatanous acid . .	13, 105	„ Nitric oxide and	
Sulphisatyde . . .	13, 103	Soda . .	3, 118
Sulphites . . .	2, 172	„ Osmious oxide and	
„ of Alumina . .	3, 311	Potash . .	6, 417
Sulphite of Alumina and Ferric		„ Perchloride of Car-	
oxide . . .	5, 277	bon . .	2, 337; 7, 350
Sulphites of Ammonia . .	2, 457	„ Picoline . . .	11, 268
Sulphite of Ammonia, compounds		„ Platinous oxide? . .	6, 289
obtained by the ac-		„ Platinous oxide and	
tion of, on the		Ammonia . .	6, 298
green salt of Mag-		„ Platinous oxide and	
nus and its yellow		Potash . .	6, 321
modification . .	6, 305	„ Platinous oxide and	
„ Aniline . . .	11, 258	Soda . .	6, 324
„ Antimonic oxide . .	4, 360	„ Potash . .	3, 38
„ Aurous oxide and		„ Potash with Chloro-	
Soda? . .	6, 232	Hyposulphate of	
„ Baryta . . .	3, 150	Iridious oxide . .	6, 388
„ Bichlorinated Me-		„ Potash and Chloride	
thylie Chloride . .	7, 350	of Potassium with	
„ Bisnuth-oxide . .	4, 435	Chloro-hyposulphate	
„ Cadmic oxide . .	5, 58	of Iridious oxide . .	6, 390
„ Caprylic Aldehyde		„ Protochloride of Car-	
and Potash . .	13, 188	bon . . .	2, 339
„ Cerous oxide . .	3, 267	„ Quinine . . .	17, 277
„ Chlorobenzene . .	11, 174	„ Quinine with Orcin	17, 292
„ Chloronaphthalin . .	14, 505	„ Ruthenous oxide	
„ Chromic oxide . .	4, 125	and Potash . .	6, 402
„ Chromous oxide . .	4, 124	„ Silver-oxide . .	6, 153
„ Cobalt-oxide . .	5, 333	„ Silver-oxide and	
„ Cupric oxide . .	5, 424	Ammonia . .	6, 174
„ Cuproso-potassic . .	5, 459	„ Silver-oxide and	
„ of Cuprous oxide . .	5, 423	Potash . .	6, 178
„ Cuprous oxide and		„ Silver-oxide and	
Potash . .	5, 459	Soda . .	6, 180
„ Ethyl . . .	3, 405	„ Soda . . .	3, 99
„ Ferric oxide . .	5, 336	„ Stannous oxide . .	5, 81
„ Ferrous oxide . .	5, 236	„ Strontia . . .	3, 174
„ Glucina . . .	3, 297	„ Sulphethyl? . .	3, 404
„ Harnaline . . .	16, 117	„ Titanic oxide . .	3, 478
„ Iridious oxide with		„ Uranic oxide . .	4, 174
Chloride of Potas-		„ Uranous oxide . .	4, 174
sum . . .	6, 388	„ Yttria . . .	3, 287
„ Iridious oxide and		„ Zinc-oxide . .	5, 21
Potash . .	6, 384	„ Zirconia . . .	3, 344
„ Lead-oxide . .	5, 135	Sulphobenzamide . .	12, 160
„ Lime . . .	3, 199	Sulphobenzamide . .	12, 160
„ Lithia . . .	3, 129	Sulphobenzene or Sulphobenzide	11, 165
„ Magnesia . . .	3, 235	Sulphobenzate of Baryta . .	12, 54
„ Magnesia and Ammo-		„ Ethyl . . .	12, 62
nia . . .	3, 247	„ Lead . . .	12, 55

Sulphobenzoate of Potash	12, 54	Sulpho-carbol, hydrosulphate	14, 418
" Silver	12, 55	Sulphocetic, or Sulphocetyllic acid,	
Sulphobenzobiphenylamide	.... 12, 160	see Cetylene-sulphuric acid	.... 16, 370
Sulphobenzoic acid	.. 12, 230	Sulphochloride, Mercuric	6, 63
Sulphobenzoic acid	... 12, 53	" of Telluromethyl	10, 494
Sulphobenzol	.. 12, 49	Sulphochlorisatin	.... 13, 101
Sulphobenzoate of Aniline	... 11, 263	Sulphochromate of Soda and Potash	4, 152
" Ethyl	.. 11, 156	Sulphocinchonic acid	.. 17, 232
Sulphobenzohic acid	.. 11, 155	Sulphocinnamic acid	.. 13, 278
Sulphobenzovinic acid	.. 12, 63	Sulphocumolic acid	.. 13, 344
Sulphobenzoyl, biamide of	.. 12, 150	Sulphocyanogen, Lassaigne's	8, 113
Sulphobenzoyl-chloride	.. 12, 117	Sulphocyanate of Aniline	.. 11, 262
Sulphobenzoyl, hydride of	.. 12, 168	Sulphocyanides	8, 75; 12, 499
" and Hydrogen,		" action of hydro-	
nitride of	12, 150	dic ethers on	13, 413
" Phenyl and Hy-		" metallic, electro-	
drogen, binitride		lysis of	1, 456
of	12, 160	" oxidation of	.. 13, 413
Sulphobismuthate of Lead	.. 5, 179	" solubility of, in	
Sulphobromide, Mercuric	.. 6, 45	alcohol	.... 8, 273
Sulphobutylic acid	.. 10, 105	Sulphocyanide of Allyl	.. 13, 544
Sulphocacodylates	9, 336	" Aluminum	.. 8, 85
Sulphocamphorate of Ammonia	13, 379	" Ammonium	8, 76
" Barium and		" Amyl	11, 68, 13, 460
Copper	.. 13, 380	" Barium	.. 8, 84
" Baryta	... 13, 379	" Barium with	
" Copper	... 13, 380	Cyanide of	
" Lead	.. 13, 380	Mercury	.. 8, 96
" Lime	... 13, 380	" Benzoyl	.. 12, 163
" Potash	13, 379	" Bismuth	.... 8, 86
" Silver	... 13, 383	" Cadmium	8, 87
Sulphocamphoric acid	.... 13, 379	" Calcium	8, 85
Sulphocaprylates	.. 13, 197	" Calcium with	
Sulphocaprylic acid	.. 13, 196	Cyanide of	
Sulphocarbonilide	.. 11, 350	Mercury	.. 8, 96
Sulphocarbomethylic acid	.. 7, 293	" Chromium	.. 8, 85
Sulphocarbonaphthalide	.. 14, 124	" Cobalt	.. 8, 89
Sulphocarbonate of Ammonia	2, 462	" Cupric	.... 8, 92
" Amyl	... 11, 60	" Cuproso-cupric	.. 8, 92
" Bismuth	.... 4, 436	" Cuprous	.... 8, 90
" Cadmium	.... 5, 58	" Cuprous, with	
" Chromium	.. 4, 129	Xanthamide	... 9, 232
" Cobalt	.... 5, 334	" of Ethyl	8, 489; 13, 461
" Copper	.. 5, 431	" Ethylene	
" Ethyl	.. 8, 465	10, 521; 13, 461	
" Ferric	.... 5, 216	" Gold	.... 8, 97
" Ferrous	.. 5, 245	Sulphocyanides of Iron	.. 8, 88
" of Gold	6, 211	Sulphocyanide of Lead	.... 8, 87
" Lead	.. 5, 138	" Magnesium	.... 8, 85
" Methyl	... 7, 293	" Magnesium,	
" Methyl-oxide	7, 292	with Cyanide	
" Nickel	.... 5, 374	of Mercury	.. 8, 96
" Piperidine	... 10, 448	Sulphocyanides of Mercury	.... 8, 94
" Platinum	6, 290	Sulphocyanide of Mercury and	
" Silver	.... 8, 154	Potassium	.... 8, 95
" Stannic	.... 5, 82	" Methyl	.... 8, 121
" Stannous	.... 5, 82	" Methyl, action	
" of Uranium?	4, 178	of chlorine	
" Zinc	.... 5, 26	on	.... 10, 511

Sulphocyanide of Molybdenum	8, 85	Sulphomolybdate of Copper	.... 5, 467
" Naphthyl	14, 119	" Ferric	5, 298
" Nickel ..	8, 90	" Ferrous	5, 297
" Palladium	8, 97	" of Glucinum ..	4, 78
" Phenyl-naphthylamine ..	14, 123	" Lead	5, 168
" Platinum	8, 97	" Lathium	4, 74
" Potassium	8, 78	" Magnesium	4, 77
" Potassium with		" Manganese	4, 247
Cyanide of		" Mercuric	6, 112
Mercury ..	8, 96	" Mercurous	6, 112
" Potassium, re-		" of Nickel	5, 387
action of, with		" Platonic	6, 331
chloride of		" of Potassium ..	4, 70
acetyl	10, 521	" Potassium	
" Silver	8, 97	with Nitre	4, 73
" Silver and Po-		" Silver	6, 183
tassium	8, 97	" Sodium	4, 74
" Sodium	8, 83	" Stannic	5, 101
" Stannous	8, 87	" Stannous	5, 101
" of Strontium	8, 84	" of Strontium	4, 76
" Thebenine	18, 211	" Yttrium	4, 78
" Uranium	8, 85	" Zinc	5, 47
" Yttrium	8, 85	Sulphomolybdic acid	4, 59
" Zinc	8, 86	Sulphomolybdous acid	4, 59
Sulphocyanobenzylene	12, 163	Sulphomorphide	16, 438
Sulphocynemic, or Sulphocymo-		Sulphomuriatic acid	2, 331
lic acid	14, 188	Sulphonaphthalate of Ethyl	14, 506
Sulphoflavic acid	13, 68	Sulphonaphthalates, metallic	14, 16
Sulphofluoride, Mercuric	6, 66	Sulphonaphthalic acid	14, 13
Sulphoform ?	7, 332 ; 13, 399	" acid, derivatives	
" solubility of, in		of	14, 506
alcohol	8, 273	Sulphonaphthalide	14, 29
Sulphoformic acid	7, 291	Sulphonaphthalin	14, 28
Sulphofulvic acid	13, 68	Sulphonaphthylamic acid	14, 109
Sulphoglyceric acid	9, 491	Sulphonarcotide	16, 149
Sulphoglycolic acid	13, 428	Sulphophenanthide	11, 870
Sulpho-hydrokinone, brown	11, 167	Sulphophenic acid	11, 157
" yellow	11, 166	Sulphophenyl, Chloride	11, 174
Sulphomellonides	9, 473	" Benzoyl and Me-	
Sulphomesitylo-sulphate of Lead	9, 30	thyl, nitride of	12, 159
" -sulphuric acid	9, 30	" Benzoyl and Hy-	
Sulphometanethic acid	14, 200	drogen, nitride	
Sulphomethylates, action of		of ..	12, 157
water on	10, 496	" and Bibenzoyl,	
" spontaneous		nitride of	12, 159
decomposition		Sulphophenylamide	11, 236
tion of	10, 495	Sulphophenylbenzamic acid	12, 158
Sulphomethylic acid	7, 305	Sulphophloretic acid	13, 313
Sulphomolybdate of Ammonium	4, 68	Sulphophosphoric acid	13, 95
" Auric ..	6, 237	Sulphophosphates	2, 218
" of Barium	4, 76	Sulphophosphate of Ammonia	2, 463
" Bismuth	4, 448	" Cupric	5, 432
" Cadmium	5, 65	" Mercuric	6, 31
" Calcium	4, 76	" of Silver	6, 155
" Ceric ..	4, 71	Sulphophosphide of Potassium	3, 43
" Cerous	4, 71	Sulphophosphites	2, 216
" of Chromium	4, 151	Sulphophosphite, Cuprous	5, 431
" Cobalt	5, 341	" Ferrous	5, 246
		" Mercuric	6, 31

Sulphophosphite of Silver ..	6, 155	Sulphotellurite of Cobalt ..	5, 353
Sulphophosphoric acid ..	2, 217	" Copper ..	5, 477
Sulphophosphorous acid ..	2, 215	" Ferrous ..	5, 312
Sulphophosphovinic acid ..	8, 466	" of Lead ..	5, 178
Sulphopianic acid ..	14, 432	" Magnesium ..	4, 425
Sulphoplatinate of Ammonium ..	6, 298	" Mercuric ..	6, 122
" Sodium ..	6, 324	" Platinic ..	6, 333
Sulphopropyllic acid ..	9, 399	" of Potassium ..	4, 420
Sulphopurpuric acid ..	13, 67	" Silver ..	6, 193
Sulphoquemic acid, <i>see</i> Quinine-		" Sodium ..	4, 422
sulphuric acid ..	17, 507	" Stannic ..	5, 104
Sulphoretene ...	17, 11	" Stannous ...	5, 104
Sulphorhodate of Potassium ..	6, 365	" of Strontium ..	4, 424
Sulphuric acid ..	13, 68	" Zinc... ..	5, 51
Sulphosaccharic acid ..	15, 330	Sulphotellurous acid ..	4, 405
Sulphosalicol ..	12, 274	Sulphotelluric acid ...	14, 277
Sulphosalicylate of Ethyl ..	12, 281	Sulphotymic acid ..	14, 419
Sulphosalicylates, metallic ..	12, 276	Sulphotoluates ..	12, 231
Sulphosalicylic acid ..	12, 275	Sulphotolucic acid ..	12, 230
Sulphoselenide of Mercury ..	6, 33	Sulphotolul ..	12, 233
Sulphosinapate of Ammonium ..	10, 34	Sulphotungstate of Ammonium ..	4, 58
" Barium ..	10, 35	" Auric ..	6, 237
" Calcium ..	10, 35	" of Barium ..	4, 43
" Potassium ..	10, 34	" Bismuth	4, 448
" Sodium ..	10, 35	" Cadmium	5, 65
Sulphosinapic acid ..	10, 33	" Calcium	4, 44
Sulphosomethylic acid..	7, 295	" Cerium ...	4, 45
" acid, terchloro-		" Cobalt ..	5, 346
rated ..	7, 351	" Copper	5, 466
Sulphostannate of Ammonium ..	5, 93	" Ferric ...	5, 297
" Barium ..	5, 99	" Ferrous ..	5, 297
" Calcium ..	5, 100	" of Lead ..	5, 167
" Iron and Cop-		" Magnesium ..	4, 45
per ..	5, 496	" Manganese ..	4, 246
" Potassium ..	5, 96	" Mercuric ...	6, 111
" Sodium ..	5, 98	" Mercurous	6, 111
" Strontium ..	5, 99	" of Nickel ..	5, 387
Sulphostannic acid ..	5, 80	" Platinum	6, 331
Sulphostannous acid ...	5, 78	" Potassium....	4, 40
Sulphosuccinanil ..	11, 318	" Potassium	
Sulphosuccinate of Ammonia	10, 130	with Ni-	
" Baryta	10, 131	trate of	
" Lead ..	10, 131	Potash	4, 40
" Lime ..	10, 131	" Potassium	
" Potash ...	10, 130	with Tung-	
" Silver ..	10, 132	state of	
Sulphosuccinic acid ...	10, 129	Potash ..	6, 46
Sulphotellurate, Ferric ..	5, 312	" of Silver ..	6, 183
" of Lithium ...	4, 423	" Sodium	4, 42
" Mercurous ..	6, 122	" Stannic	5, 101
" of Nickel ..	5, 393	" Stannous ..	5, 101
Sulphotelluric acid ..	4, 406	" of Strontium ..	4, 44
Sulphotelluride of Bismuth	4, 450	" Vanadium ..	4, 104
Sulphotellurite of Ammonia ..	4, 415	" Zinc	5, 47
" Auric	6, 238	Sulphotungstic acid ..	4, 33
" of Bismuth	4, 450	Sulphotungstite of Sodium ..	4, 42
" Cadmium ...	5, 66	Sulphotungstous acid	4, 32
" Calcium ...	4, 424	Sulphovanadate of Ammonium ..	4, 98
" Cerium	4, 425	" Barium	4, 101

Sulphovanadate of Calcium ...	4, 102	Sulphur, history of ...	2, 153
„ Potassium ..	4, 100	„ Iodide of ..	2, 267
„ Strontium ..	4, 102	„ Iodide, sulphate of ? ..	2, 350
Sulphovanadic acid	4, 92	„ melting and solidifica- tion of ..	2, 158
Sulphovanadite of Ammonium ...	4, 98	„ memoirs relating to ..	2, 151
„ Potassium .	4, 100	„ milk of ..	2, 159
Sulphovanadous acid ..	4, 90	„ modifications of ..	2, 156
Sulphovinates ..	8, 41	„ native, crystalline form of ..	2, 156
„ constitution of ..	10, 516	„ natural, occurrence of ..	2, 154
„ stable ..	10, 517	„ -nuclei ..	7, 170
Sulphovinate of Wine-oil ..	13, 777	„ in organic compounds ..	7, 5
Sulphovinic acid ..	8, 415	„ oxides of	2, 160
„ acid, constitution of ..	10, 515	„ preparation of ..	2, 154
„ acid, formation of ..	8, 222	„ Protochloride, carbonate of ..	2, 339
„ acid, formation of ..	13, 438	„ purification of	2, 155
Aldehyde from ..	13, 438	„ replacement of, by oxy- gen ..	7, 76
Sulphoviridic acid ..	13, 66	„ rolled ..	2, 156
Sulphoxanthic acid ..	8, 466	„ -salts ..	2, 9, 229
Sulphoxiarsenate of Potash ..	4, 294	„ -salts, double ..	2, 14
Sulphoxiarsenic acid ..	4, 280	„ Selenide ..	2, 243
Sulphoxylic acid ..	13, 117	„ soft, amorphous ..	2, 157
Sulphoxyphosphoric acid ..	2, 220	„ solubility of, in volatile oils ..	7, 168
Sulphur ..	2, 151	„ solution of, in alcohol ..	8, 263
„ -acids ..	2, 229	„ springs, occurrence of baregin in ...	18, 457
„ Ammonio-chloride of, with Ammonio-sul- phide of Nitrogen ..	2, 493	„ with Stannic Chloride ..	5, 89
„ Ammonio-dichloride of ..	2, 483	„ substitution of, for oxygen ...	7, 76
„ Ammonio-protocliloride of	2, 484	„ Sulphate of Ammonio- chloride of ..	2, 487
„ <i>Antimonium auratum</i> ...	4, 354	„ Sulphazotic Chloride of	2, 475
„ -bases ..	2, 229	„ Terchloride, sulphate of ..	2, 342
„ Bichloride, carbonate of	2, 337	„ volatile liver of ..	2, 454
„ Bichloride with Pen- tachloride of An- timony ..	4, 370	„ and Arsenic, chloride of	4, 285
„ Bichloride, sulphate of ..	2, 345	„ and Tin, chloride of ...	5, 90
„ boiling point of ..	2, 158	„ and Titanium, chloride of	3, 481
„ Bromide of ...	2, 283	Sulphurets, <i>see</i> Sulphides.	
„ Carbonate of Ammonio- chloride of ..	2, 486	Sulphuret of Antimony, golden ..	4, 354
„ in cast iron ...	5, 214	„ Baryta ..	3, 146
„ Chlorides of ...	2, 331	Sulphuretted Charcoal ..	2, 206
„ combustion of ...	2, 169	„ Chyazic acid ..	8, 70
„ compounds of, with Hy- drogen ..	2, 93	„ Hydrogen ...	2, 195
„ compounds of, with Nuclei ..	7, 211	„ Hydrogen, forma- tion of, in fermenta- tion and putre- faction ..	7, 97
„ compounds of, with Oxygen ..	2, 160	Sulphuric acid... ..	2, 175
„ crude ..	2, 155	„ action of, upon alcohol ..	8, 221;
„ crystallisation of, by slow cooling from fusion	2, 157	10, 515; 13, 419	
„ dimorphism of ..	1, 98; 2, 156		
„ flowers of ...	2, 156		
„ Fluoride of ..	2, 364		

Sulphuric acid, action of, upon ether ..	10, 518	Sulphuric ether	... 8, 171, 418
" anhydrous, action of, on chloride of acetyl	13, 455	Sulphurous acid	.... 2, 168
" anhydrous, compounds of, with sulphur ..	2, 178	" absorption of, by volatile oils	... 7, 167
" anhydrous, compound of, with sulphurous acid	2, 170	" aqueous, electrolysis of	... 1, 452
" anhydrous, decompositions of	2, 177	" copulated acids produced by, with wood-spirit	7, 224
" anhydrous, preparation of ..	2, 176	" expansion of, by heat ....	... 1, 229
" anhydrous, properties of	2, 177	" formation of, by heating sulphuric acid with alcohol	8, 237
" aqueous, quantities of anhydrous acid and oil of vitriol in	2, 186—188	" gas, absorption of, by alcohol	8, 263
" bi-hydrated	2, 185	" maximum tension of, at different temperatures....	1, 261; 2, 503
" compound of, with Iodic acid	2, 258	" presence of, in the air ..	2, 411
" concentrated	2, 180	" substitution of, for hydrogen in organic compounds	.... 7, 74
" concentrated, action of, on organic compounds	7, 127	" sulphuretted "	2, 160
" copulated acids produced by ..	7, 225	Sulphurous ether	.... 8, 405
" decomposition of urea by ..	7, 367	Sulphydrates	.... 2, 226
" dilute ...	2, 185	Sulphydrate of Cetyl	.. 16, 367
" dilute, action of, on organic compounds	7, 129	" Potassium	.... 3, 31
" electrolysis of	1, 451	Sulphydic acid	... 2, 195
" ethylated ..	13, 414	Sumach, preparation of gallic acid from	.... 12, 397
" formation of	2, 175	" wax of	.... 18, 163
" fuming	2, 180	Sumatra Camphor	.... 14, 332
" heat developed in the combination of, with water	1, 294	Sumbul Balsam	.... 17, 453
" hydrates of ..	2, 180	Summer Rape, oil of	.... 17, 554
" impurities in ..	2, 181	<i>Summitates Tunaceti</i> , bitter	.... 18, 242
" monohydrated, properties of	2, 184	principle obtained from	.... 1, 221
" Nordhausen	2, 180	Sun, temperature of	.... 18, 315
" purification of, from oxides of nitrogen	2, 182	Sunflower oil	.... 18, 315
" solution of, in alcohol	8, 263	Sunshine, effect of, on coloured fabrics, and on the colours of flowers	.... 7, 95
" terhydrated	2, 185	Superphosphate of Lime	.... 3, 196
Sulphuric Anhydride, <i>see</i> Sulphuric acid, anhydrous.		Supporters of Combustion	.... 2, 18
		Surinamine	... 17, 316
		Sweet Sedge, oil of	.... 14, 400
		<i>Swietenia senegalensis</i> , bitter	.... 18, 218
		from the bark of	.... 17, 44
		Sycoceryl Acetate	.... 17, 44
		" -acetic Ether	... 17, 44
		" Alcohol	.... 17, 43
		" Benzoate	... 17, 45
		" -benzoic Ether	... 17, 45
		Sycoretin	.... 17, 46
		Sylvates	.... 17, 320

Tartaric acid, inactive ..	10, 369	Tartrate of Arsenious acid and	
" copulated acids produced by	7, 227	Potash ..	10, 296
" formation of racemic acid in the preparation of	10, 347	Soda ..	10, 296
" with nitric oxide	10, 272	Atropine ..	16, 455
" preparation of formic acid from	7, 271	Baryta ..	10, 285
" relation between rotatory power and molecular rotation of	7, 65, 10, 365	Baryta and Potash	10, 286
" oxide ..	10, 336	Baryta and Soda ..	10, 286
" ether ..	10, 343	Baryto-antimony ..	10, 307
" ether, formation of racemic acid from ..	10, 347	of Benzidine ..	11, 341
" zed Borax ..	10, 283	Berberine ..	17, 196
" us ..	10, 275	Berberine and Antimony ..	17, 196
" <i>ammoniacus</i> ..	10, 280	Bismuth ..	10, 291
" <i>boracatus</i> ..	10, 278, 283	of Boracic acid and Potash ..	
" <i>crudus</i> ..	10, 276	" Boracic acid and Soda ..	
" <i>depuratus</i> ..	10, 276	" Borax and Potash ..	
" <i>emeticus</i> ..	10, 299	" Brucine ..	
" <i>regeneratus</i> ..	8, 297	" Cadmium ..	10, 308
" <i>solubilis ammoniacalis</i>	10, 280	" Calcio-antimony ..	10, 291
" <i>striatus</i> ..	10, 299	" of Cerium ..	10, 294
" <i>tartaricatus</i> ..	10, 275	" Chromium ..	17, 227, 229, 614
" acid ..	10, 333	" Cinchonidine ..	17, 227, 229, 614
" acid ..	10, 314	" Cinchonine ..	17, 614
" of Ethyl ..	10, 314	" Cinchonine and Antimony ..	17, 216
" " ..	10, 311	" Cinchonine, formation of racemic acid from ..	10, 347
" " ..	10, 311	" Cinchonine and Antimony ..	17, 218, 610
" " ..	10, 292	" Cobaltoso-potassic ..	10, 320
" " ..	10, 292	" of Codeine ..	17, 36
" " ..	10, 273	" Cupric ..	10, 320
" " ..	10, 298	" of Ethyl ..	10, 313
" " ..	10, 294	" Glucina ..	10, 291
" " ..	10, 316	" Guanine ..	10, 484
" " ..	10, 320	" Ferric ..	10, 314
" " ..	11, 268	" Ferroso-ferric ..	10, 315
" Antimony ..	10, 297	" Ferrous ..	10, 313
" Antimony and Brucine ..	17, 584	" of Furfurine ..	10, 382
" Antimony and Strychnine ..	17, 504	" Lanthanum ..	10, 291
" Antimony and Uranium ..	10, 309	" Lead ..	10, 312
" Argento-antimony ..	10, 326	" Lead and Ammonium ..	10, 313
" Argento-chromic ..	10, 326	" Lead and Antimony ..	10, 313
" of Arsenic acid and Potash ..	10, 296	" Lead and Chromium ..	10, 313
" Arsenious acid ? ..	10, 296	" Lead and Potassium ..	10, 313
" Arsenious acid and Ammonia ..	10, 296	" Lime ..	10, 288
		" Lime and Potash ..	10, 289
		" Lime and Soda ..	10, 290
		" Lithia ..	10, 285
		" Lithia and Potash ..	10, 285
		" Lithia and Soda ..	10, 285
		" Lithio-antimony ..	10, 307
		" of Magnesia ..	10, 390
		" Magnesia and Potash ..	10, 291

Tartrate of Magnesia and Soda	10, 291	Tartrate of Stychnine	10, 503
„ Manganic	10, 296	„ Telluric	10, 309
„ Manganous	10, 296	„ of Tetravinylum	13, 490
„ Mercuric	10, 323	„ Thebaine	18, 209
„ Mercurous	10, 322	„ Thorina	10, 292
„ Methylic	10, 343	„ „ and Potash	10, 292
„ Molybdic	10, 293	„ Titanic	10, 292
„ of Molybdic acid	10, 293	„ Uramic	10, 295
„ Molybdic acid and Potash	10, 293	„ Uranous	10, 295
„ Molybdous	10, 293	„ of Urea	13, 405
„ of Morphine	18, 435	„ Vanadic acid	10, 293
„ Niccolopotassic	10, 320	„ Vanadium	10, 293
„ of Nickel	10, 320	„ Yttria	10, 293
„ Nicotine	14, 232	„ Zinc	10, 293
„ of Palladium	10, 326	„ „ and Potash	10, 293
„ Papaverine	18, 203	„ Zirconia	10, 293
„ of Potash	10, 275	Tartaric acid	10, 293
„ of Potash, neutral, electrical properties of	1, 321	Tartaromethylic acid	10, 293
„ Potash and Ammonia	10, 280	Tartaric acid	10, 293
„ Potassio-antimonic	10, 299	Tartaromic acid	10, 314
„ Potassio-bismuthic	10, 310	Tasmanite	17, 442
„ Potassio-potassio-cobaltous	10, 320	Taste of organic compounds	7, 4
„ Potassio-ferro-cupric	10, 321	Talia	5, 4
„ Potassio-mang. ferric	10, 316	Taurine	9, 4
„ Potassio-mercuric	10, 316	Taurochenocholic acid	15, 4
„ Potassio-mercurous	10, 296	Taurocholic acid	18, 4
„ Potassio-molybdic	10, 324	Taurylic acid	11, 4
„ Potassio-molybdous	10, 324	Taxine	13, 4
„ Potassio-niccolic	10, 293	Tea-oil	1, 4
„ Potassio-stannous	10, 314	Tea-plant, resin of	1, 4
„ Potassio-tantallic	10, 292	Tea, preparation of caffeine or theine from	1, 4
„ Potassio-telluric	10, 309	Tekoretin	1, 4
„ Potassio-uranous	10, 296	Telluric acid	1, 4
„ Potassio-vanadic	10, 293	Tellurates	1, 4
„ of Quinidine	17, 302	Tellurates of	1, 4
„ Quinidine and Antimony	17, 302	„ Cupric	1, 4
„ Quinidine and Potash	17, 302	„ Ferric	1, 4
„ Quinine	17, 291	„ Ferrous	1, 4
„ Quinine and Potash	17, 291	„ of Glucina	1, 4
„ Silver	10, 325	„ Lead-oxide	1, 4
„ Soda	10, 280	„ Lime	1, 4
„ Soda and Ammonia	10, 282	„ Lithia	4, 12
„ Soda and Potash	10, 282	„ Magnesia	4, 12
„ Sodio-antimonic	10, 307	„ Manganous oxide	4, 126
„ Sodio-cupric	10, 321	„ Mercuric oxide	6, 122
„ Stannous	10, 311	„ Mercurous oxide	6, 121
„ of Stibmethylethylum	13, 503	„ Nickel-oxide	5, 393
„ Strontia	10, 286	Tellurates of Potash	4, 417
„ Strontia and Potash	10, 287	Tellurate of Silver-oxide	6, 193
„ Strontia and Soda	10, 287	Tellurates of Soda	4, 421
„ Strontio-antimonic	10, 307	Tellurate of Strontia	4, 424
„ Strontio-antimonic, with Nitrate of	10, 308	„ Thorina	4, 426
„ Strontia	10, 308	„ Uramic oxide	4, 426
		„ Yttria	4, 425

Tellurate of Zirconia	4, 426	Tellurite of Mercurous oxide . .	6, 121
Tellurethyl	8, 383	" Nickel-oxide	5, 393
Telluric acid	4, 400	Tellurites of Potash	4, 416
" hydrochlorate	4, 413	Tellurite of Silver-oxide . . .	6, 192
" solubility of, in al-		Tellurites of Soda	4, 420
cohol	8, 270	Tellurite of Strontia	4, 424
Telluric Bismuth	4, 450	" Telluric bromide . . .	4, 411
" Bromide	4, 410	" " chloride	4, 412
" " tellurite of	4, 411	" " fluoride	4, 413
" Chloride	4, 412	" " iodide	4, 409
" " hydrochlorate . . .		" Thorina	4, 426
of	4, 413	" Uranic oxide	4, 426
" " tellurite of	4, 412	" Yttria	4, 425
" Citrate	11, 454	" Zinc-oxide	5, 51
" Fluoride	4, 413	" Zirconia	4, 426
" " tellurite of	4, 413	Tellurocyanide of Potassium ? .	8, 125
" Iodide	4, 408	Telluromethyl	10, 492
" " hydriodate of . . .	4, 409	Tellurous acid	4, 397
" " tellurite of	4, 409	" " with fluxes	4, 422
" Oxalate	9, 150	" Bromide	4, 410
" Nitrate	4, 413	" Chloride	4, 411
" Oxide	4, 397	" Iodide	4, 408
" Rhodizionate	10, 403	" Sulphate ?	4, 407
" Salts	4, 398	" Sulphide	4, 405
" Sulphate	4, 407	Tellurium	
" Sulphide	4, 406	" Alloys	4, 393
" Tartrate	10, 309	" Amalgam	4, 426
Telluride of Aluminum	4, 425	" Bismide, solubility . . .	6, 121
" Bismuth	4, 450	of in alcohol	8, 270
" Copper	5, 477	" Bromides	4, 410
" Ethyl	8, 383	" Chlorides	4, 411
" Glucinum	4, 425	" Fluorides	4, 413
" Gold	6, 238	" foliated	6, 245
" " and Silver	6, 250	" graphic	6, 250
" Hydrogen, solid	4, 404	" Iodides	4, 408
" Iron	5, 312	" Oxides	4, 397
" Lead	5, 177	" -salts	2, 9
" " and Gold ?	6, 245	" -salts, reaction of, . . .	
" Potassium	4, 416	with infusion of . . .	
" Silver	6, 192	galls	15, 467
" " auriferous	6, 250	" Selenide	4, 408
" Sodium	4, 420	" Sulphides	4, 405
" Tellurethyl	8, 387	" Tetrasulphide	4, 406
" Zinc	5, 51	" white	6, 250
Tellurites	4, 400	" and Silver, chloride of .	6, 193
Tellurite of Alumina	4, 425	Temperature, change of, arising .	
" Ammoma	4, 411	from decomposition	
" Chromic oxide	4, 426	" effect of, on the	1, 183
" Cobalt-oxide	5, 353	solubility of sub-	
" Cupric oxide	5, 477	stances in water	2, 70
" Ferric	5, 312	" influence of, on	
" Ferrous	5, 312	combination	1, 36
" of Glucina	4, 425	" influence of, on	
" Lead-oxide	5, 178	crystallisation	1, 8
Tellurites of Lime	4, 424	" influence of, on de-	
" Lithia	4, 422	composition	1, 116
Tellurite of Magnesia	4, 424	" scale of, used in	
" Manganese	4, 426	this work	1, 8
" Mercuric oxide	6, 121		

Temperature of Space	1, 221	Terbromide of Allyl	13, 512
" the Sun	1, 221	" Antimony	4, 364
Tempering of Steel	5, 207	" Arsenic	4, 283
Temple oil	14, 212	" Gold	6, 214
Tenant	1, 6	Terbromobenzene	11, 169
Tennantite	5, 492	Terbromocacothic acid	11, 170
" Arsenic in	4, 219	Terbromochloronaphthalin, Bi- dromate	14, 73
Tension of the electric current of a battery, conditions determining the	1, 413, 417	Terbromocodene	17, 39
" of gases	1, 257, 2, 503	Terbromomethylene	9, 19
Terbasic Arseniate of Cobalt- oxide	5, 319	Terbromonaphthalin	14, 33
" Arseniate of Cupric oxide	5, 473	Terbromophenol	11, 170
" Arsenate of Ferrous oxide	5, 305	Terbromophloroglucin	15, 68
" Arsenate of Lead- oxide	5, 173	Terbromorean	12, 356
" Borate of Ethyl	8, 394	Terbromosacchelic acid	12, 291
" Borate of Methyl	7, 294	Terecetylamine	16, 383
" Cupric Acetate	8, 321	Terchloroacetal	13, 478
" Hyposulpharsenite of Potassium	4, 292	Terchloracetates	9, 211
" Hyposulphate of Lead- oxide	5, 135	Terchloracetic acid	9, 209
" Nitrate of Cupric ox- ide	5, 446	Terchloracetone	13, 465
" Nitrate of Lead- oxide	5, 156	Terchloranethol	14, 215
" Nitrate of Mercuric oxide	6, 74	Terchloraniline	11, 285
" Nitrite of Lead-oxide	5, 153	Terchlororhymol	14, 441
" Phosphate of Baryta	3, 144	Terchlorhydrin	13, 577
" Phosphate of Cobalt- oxide	5, 330	Terchlorhydrokumone	11, 195
" Phosphate of Cupric oxide	5, 419	Terchlorhydrokumone, yellow	11, 196
" Phosphate of Ferrous oxide	5, 224	Terchloride of Antimony	4, 365
" Phosphate of Lead- oxide	5, 130	" Antimony, action of, on glycol	13, 424
" Phosphate of Potash	3, 28	" Antimony with Sal-ammiac	4, 374
" Sulphantimonite of Lead	5, 176	" Arsenic	4, 285
" Sulpharsenite of Am- monium	4, 288	" Arsenic with Bi- chloride of Tin	5, 103
" Sulphate of Ferric oxide	5, 242	" Cacodyl	13, 494
" Sulphate of Mercuric oxide	6, 28	" Glycerol	13, 577
Terbenzoate of Glycerin or of Glycol	12, 105	" Gold	6, 215
Terbium and Erbium	3, 291	" Gold, compound of, with Cyanide of Ethyl	13, 457
Terborate of Magnesia	3, 231	" Gold, compound of, with Cyanide of Methyl	13, 412
" Potash	3, 26	" Iodine	2, 348
Terbromanethol	14, 215	" Iridium	6, 381
Terbromaniline	11, 280	" Iridium and Po- tassium?	6, 387
Terbromhydrin	13, 575	" Manganese?	4, 229
		" Osmium?	6, 413
		" Osmium and Am- monium	6, 416
		" Phosphorus	2, 328
		" Phosphorus, action of, on alcohols, ethers, acids, &c.	10, 487
		" Phosphorus, com- pounds of, with Cyanide of Me- thyl	13, 411

Terechloride of Phosphorus with Stannic Chloride	5, 90	Terebene Hydrochlorate with Bihydrochlorate of Turpentine oil	14, 275
" Sulphur	2, 334	" Hydriodates	14, 276
" Sulphur, sulphate of	2, 342	Terebentic acid	14, 255
" Tantalum	4, 6	Terebentic acid	13, 118
" Tantalum, tantalate of?	4, 6	Terebenic acid	16, 183
" Tungsten	4, 35	Terebic acid	12, 467
" Vanadium	4, 95	Teichlates of Methyl, Ethyl, and Amyl	12, 169
Terechlorinated Ethylic Sulphide	10, 514	Terebilate of Silver	12, 469
" Hydrochloric ether	9, 199	Terebilene	14, 280
" Methyl-ether	7, 354	Terebolic acid	12, 467
" Methylic Sulphide	7, 355	Terechrysic acid	11, 424
" Sulphosomethylic acid	7, 351	Terephthalate of Silver	13, 14
Terechloriodide of Tetramethylum	12, 491	Terephthalic acid	13, 13
Terechlorobenzene	11, 180	Terfluoride of Antimony	4, 371
Terechlorobromonaphthyl, bromide of, <i>see</i> Bibromoterechloronaphthalin	14, 80	" Arsenic	4, 286
Terechlorocarbates	11, 183	" Chromium with Ammonia	4, 143
Terechlorocarbonic acid	11, 181	" Vanadium	4, 96
Terechloroquinone	11, 193	Terhydrated Chinoline	13, 248
Terechloroanthol	12, 470	" Hydrochlorate of Ferrous oxide	5, 252
Terechlorofilic acid	16, 129	" Silicate of Magnesia	3, 396
Terechloroknuhydrone	11, 196	Terhydrochlorate of Arsenious acid	4, 285
Terechloroknone	11, 193	" Auric oxide	6, 216
Terechloromestylene	9, 19	" Bismuth-oxide	4, 439
Terechloromethylic Acetate	9, 232	" Ferric oxide	5, 254
Terechloromethylsulphate of Cyanethine	13, 237	" Quintichlorotolnol	12, 293
Terechloronaphthalins	14, 49	Terhydrocyanate of Ferric oxide	7, 449
Terechloronaphthalin, Bihydrochlorate of	14, 56	Terhydrofluat of Ferric oxide	5, 256
Terechloronaphthalin, Hydrochlorate of	14, 55	" Silica	3, 366
Terechloronaphthyl Chloride, <i>see</i> Quadrochloronaphthalin	14, 59	" Titanic oxide	3, 482
Terechlorophenol	11, 181	Tenodide of Antimony	4, 362
Terechlorophtalic acid	13, 17	" Arsenic	4, 281
Terechlorophtalic anhydride	13, 18	" Bismuth	4, 437
Terechloropteritanic acid	15, 502	" Gold	6, 213
Terechloroquinone	11, 193	" Tellurium	4, 409
Terechlorosulphonaphthalates	14, 51	" Tetramethylum	12, 490
Terechlorotannaspic acid	15, 198	" Tetrethylum	9, 67
Terechlorotolnol, hydrochlorate	12, 292	" Triethylmethylum	13, 485
Terechlorovalerates	11, 103	" Trimethylamylum	13, 485
Terechlorovalerianic acid	11, 103	" Trimethylethylum	13, 484
Terechlorovinic acetate	9, 237	Termodomestylene	9, 19
Terebromate of Chromic oxide	4, 116	<i>Terminalia vernax</i> , balsam obtained from	17, 394
Tereyanide of Gold	3, 36	Termolybdate of Potash	4, 70
Terebene	14, 273	Ternaphthylphosphamide	14, 129
" <i>see</i> Camphylene		Tertracetoneitrile	12, 547
" Hydriodates	14, 276	" preparation of Nitroform from	12, 493
" Hydrochlorate	14, 274	Ternitramarine	12, 198
		Ternitramisic acid	13, 143
		Ternitransol	12, 265

Terntransol, preparation of Picric acid from	11, 214	Tersulphide of Phosphorus	2, 215
Terntrate of Bismuth-oxide	4, 443	" Potassium	3, 33
Ternitrocarbohic acid	11, 211	" Tellurium	4, 406
Ternitrocellulose	15, 166	" Tungsten	4, 33
Ternitroresylic acid	11, 223	Tessche	3, 393
Ternitrogentianic acid	16, 182	Tesseral pyrites	5, 349
Ternitrohydrobenzamide	12, 197	<i>Tetracarbure quadrhydrique</i> of	
Ternitromesitylene	9, 22	Couerbe	11, 2
Ternitromesityl	13, 347	Tetracetosylum	13, 488
Ternitromethyl, hydride	12, 493	Tetracetylum	13, 488
" iodide	12, 493	Tetrachloracetone	13, 465
Ternitronaphthalin	14, 88	Tetrachloride of Arsenomethyl	13, 499
Ternitrophenol	11, 211	Tetrachlorinated Ethylic sulphide	10, 514
Ternitrophenyl, benzoate	12, 91	Tetrachlorodide of Tetramethylum	12, 490
Ternitrophenetol	13, 317	Tetrachlorocinnamyl	13, 298
Ternitrothymol	14, 415	Tetrachloronaphthalin	14, 59
Teropammone	14, 436	Tetradecetyl hydride	16, 533
Teroxide of Gold	6, 207	Tetradymite	4, 450
" Iridium	6, 375	Tetrafluoride of Antimony	4, 371
" Iridium with Potash	6, 384	Tetrallylarsonium	13, 548
" Osmium	6, 407	Tetrallylum	13, 547
" Osmium with Potash	6, 417	Tetramethylammonium	7, 320
Teroxygenated Chlorine (Stadion's)	2, 309	Tetramethylum	7, 320
Terpalmitin	16, 377	" Chloriodides	12, 490
Terpin	14, 258	" Deca-iodide	10, 498
Terpinol	14, 264	" Iodides	12, 490
<i>Terra foliata tartari</i>	8, 297	" Mercury-compounds	13, 395
" <i>foliata tartari crystallabilis</i>	8, 299	" Penta-iodide	10, 498
" <i>ponderosa</i>	3, 134	Tetramethylphosphonium	12, 492
<i>Terræ absorbentes</i>	3, 133	Tetramylamine	11, 112
Tersulchandes	15, 318	Tetramylammonium	11, 112
Terselenite of Ferric oxide	5, 247	Tetranitrocellulose	15, 167
Tersilicate of Alumina	3, 418	Tetraphyline	5, 302
" Ferric oxide	5, 282	Tetrasilicate of Manganous oxide	4, 244
" Lime	3, 389	" Potash	3, 371
" Soda	3, 376	" Soda	3, 376
Tersul-hyposulphuric acid	2, 162	Tetrasulphide of Ammonium	2, 452
Tersulphate of Antimonic oxide	4, 361	" Antimony?	4, 354
" Bismuth-oxide	4, 435	" Ethylene	3, 354
" Ferric oxide	5, 214	" Osmium	6, 411
" Uranic oxide	4, 177	" Potassium	3, 33
" Vanadic acid	4, 94	" Tellurium	4, 406
Tersulphide of Antimony, amorphous	4, 310	Tetrathionates	2, 166
" Antimony with Pentachloride of Antimony	4, 370	Tetrathionate of Lead-oxide	5, 135
" Barium	3, 149	" Potash	3, 37
" Bismuth	4, 435	" Silver-oxide	6, 153
" Chromium with Hydrosulphate of Ammonia	4, 142	" Soda	3, 90
" Gold	6, 210	" Stannous oxide	5, 81
" Iridium	6, 377	" Strontia	3, 174
" Methyl	7, 330	" Zinc-oxide	5, 21
" Osmium	6, 411	Tetrathionic acid	2, 164
		Tetrathionic acid, action of, on Mercury salts	6, 27
		Tetravinylum	13, 488
		Tetrelallylammonium	13, 488
		Tetretlylammonium	9, 65

Tetraphylene-bisammonium ...	13, 486	Thiocinol ..	.... 13, 278
Tetraphylum ...	9, 65	Thiocyanides ..	.. 8, 114
" Hydrated oxide ..	9, 66	Thiocyanide of Tin ...	.. 8, 114
" Mercury - com- pounds of	13, 482	Thioformic acid ..	.. 12, 479
" and Mercury, 10- dides of	13, 483	Thiofucosol .	.. 10, 374
" salts of .	9, 67	Thiofurfol	10, 374
Tetraphylphosphonium...	12, 526	Thiomelanic acid	8, 240
Tetraphylurea .	.... 9, 291	Thionaphthamates ...	... 14, 115
Tetryl, <i>see</i> Butyl		Thionaphthyl, oxide of, <i>see</i> Sul- phonaphthalin	14, 28
Teucrium bitter	18, 243	Thionessal .	12, 188
<i>Teucrium marum</i> , camphor of	14, 364	Thionuric acid	10, 183
Texture of crystals .	1, 18	Thiosalicol .	12, 274
Thaeketone ..	9, 12	Thiosmethylamine .	10, 61
Tharandite ..	3, 253	Thiosmethylammonium, iodide.	10, 62
Thea, oil of various species of	17, 99	Thiosmamine .	10, 57
Thobacine	18, 211	Thiotolamates .	12, 344
Thobaine ...	17, 167; 18, 208	Thiotolamic acid	12, 343
Thobenine ..	18, 210	Thiotolual	12, 283
Theine	13, 224	Thomsonite .	3, 433
Thénard ...	1, 6	Thurina .	3, 330
Thenardite	3, 100	" Acetate	8, 305
<i>Theobroma Cacao</i> , butter from the seeds of ..	16, 387	" Arsenate .	4, 310
Theobromine	12, 471	" Borate .	3, 332
Thermography .	1, 179	" Carbonate ..	3, 332
Thermometers ..	1, 235	" Chromate ...	4, 155
Thermometer scales, Centigrade and Fahrenheit table of	2, 500	" Citrate .	11, 452
" scales, comparison of	1, 237, 2, 500	" with Fluxes	3, 336
Therythrine .	9, 12	" Formate .	7, 279
Theveresin	18, 251	" Hydrate .	3, 331
Thevetin	18, 251	" Molybdate .	4, 333
Thioacetate of Acetyl .	9, 356	" Nitrate ..	3, 335
" Ethyl ...	9, 356	" Oxalate	9, 135
" Othyl ..	9, 356	" Phosphate	3, 332
Thioacetates, metallic ..	13, 418	" -salts	3, 332
Thioacetic acid .	9, 355; 13, 416	" Silicate .	3, 463
" acid, anhydrous	9, 356	" Succinate ..	10, 122
" acid, reaction of, with Aniline	13, 450	" Sulphate .	3, 333
Thioacetone ..	9, 14; 13, 378	" Tartrate	10, 292
Thalidine ..	9, 313	" Tellurite and Tellurate	4, 426
" action of ethyl iodide and amyl iodide on	12, 554	" Tungstate ..	4, 45
" action of methyl iodide on	12, 554	" Vanadates	4, 103
" preparation of leucine from	11, 429	" and Ammonia, carbonate	3, 335
Thiamisol?	18, 131	" and Potash, carbonate ..	3, 335
Thianylamsamide	14, 145	" and Potash, nitrate	3, 336
Thinble apparatus, Wollas- ton's	1, 408	" and Potash, oxalate ..	9, 136
Thiobenzaldin	12, 214	" and Potash, sulphate .	3, 335
Thiobenzamide ..	12, 118	" and Potash, tartrate	10, 292
		Thorinum .	3, 330
		" Bromide .	3, 334
		" Chloride .	3, 334
		" Ferrocyanide	7, 486
		" Fluoride	3, 335
		" Oxide	3, 330
		" Oxy-chloride	3, 335
		" Phosphide	3, 332
		" Sulphide	3, 333
		" and Potassium, bro- mide	3, 336

Thorium and Potassium, chloride	3, 336	Tin Chlorides	5, 84
„ and Potassium, fluoride	3, 336	„ Chlorosulphide	5, 90
Thorite	3, 463	„ Cobaltidecyanide	7, 495
„ preparation of thorina from	3, 330	„ Cuprocyanide	8, 7
Three-fourths, Iodide of Mercury	6, 35	„ Ethyl-compounds containing	9, 91
„ Phosphate of Lime	3, 195	„ Fluorides	5, 92
„ Silicate of Magnesia	3, 397	„ Hydrated Sesquisulphide	5, 79
<i>Thuja articulata</i> , resin of	17, 429	„ Hydrochlorate of Sesquioxide	5, 87
„ <i>occidentalis</i> , jelly from	13, 240	„ Iodides	5, 82
„ <i>occidentalis</i> , pumipicrin in the needles of	16, 26	„ Iodochloride	5, 91
„ <i>occidentalis</i> , wax of	18, 163	„ Malate	10, 222
Thuja oil	16, 246	„ Meconate	12, 428
Thuyetic acid	16, 241	„ Osmate ^p	6, 421
Thuyetin	16, 211	„ Oxides	5, 68
Thuyginin	16, 242	„ Peroxide	5, 71
Thuyin	15, 319; 16, 215	„ Phosphide	5, 77
<i>Thus</i>	17, 127	„ Protiodide	5, 82
Thymeid	15, 38	„ Protobromide	5, 84
Thymene	14, 311	„ Protochloride	5, 84
Thymoil	15, 36	„ Protosalts	5, 69
Thymolamide	15, 38	„ Protosulphide	5, 78
Thymolic acid	15, 37	„ Protoxide	5, 68
Thymolol	15, 35	„ Pyromucate	10, 385
Thymol	14, 408	„ Selenide	5, 82
„ oil from	13, 316	„ Sesquioxide	5, 70
Tin	5, 66	„ Sesquisulphide	5, 79
„ Acetates	8, 310	„ Silicide	5, 100
„ Alloys	5, 105	„ Silicofluoride	5, 100
„ Amalgam	6, 124	„ Suberate	13, 210
„ Ammonio-bichloride	5, 93	„ Succinates	10, 124
„ Ammonio-protiodide	5, 93	„ Thiocyanide	8, 114
„ Ammonio-protoclchloride	5, 93	„ Xanthate	8, 157
„ Antimonide	5, 103	„ and Bismuth, alloys	5, 101
„ Arsenide	5, 102	„ and Bismuth, amalgam	6, 126
„ Aurocyanide	8, 42	„ Bismuth and Antimony, alloy	5, 104
„ Benzozate	12, 41	„ Bismuth and Lead, alloys	5, 180
„ Bibromide	5, 84	„ and Iron, carbide	5, 315
„ Bichloride	5, 89	„ and Cobalt, alloy	5, 354
„ Bichloride with Butter Almond oil	12, 28	„ and Copper, alloys	5, 481
„ Bichloride, compound of, with Cyanide of Ethyl	13, 457	„ and Gold, alloy	6, 239
„ Bichloride, compound of, with Cyanide of Methyl	13, 412	„ and Iridium, alloy	6, 391
„ Bichloride, expansion of, by heat	1, 226, 229	„ and Iron, alloy	5, 314
„ Bichloride with Trichloride of Arsenic	5, 103	„ and Iron, cyanides	7, 190
„ Biiodide	5, 83	„ and Lead, alloys	5, 179
„ Bin oxide	5, 71	„ and Lead, amalgam	6, 127
„ Bisulphide	5, 79	„ and Lead, antimonide	5, 180
„ Bromides	5, 84	„ Lead, and Bismuth, amalgam	6, 128
„ Butter of	5, 84	„ Lead, Copper, and Zinc, alloy	5, 488
„ Camphorate	14, 461	„ and Mercury, chloride	6, 125
		„ and Nickel, alloy	5, 394
		„ and Palladium, alloy	6, 357
		„ and Platinum, alloy	6, 335
		„ and Potassium, alloy	5, 95
		„ and Silver, alloy	6, 194
		„ and Sodium, alloy	5, 98

Tin and Sulphur, chloride ...	5, 90	Titanum Alloys ..	3, 488
„ and Zinc, alloys ..	5, 105	„ Ammonio-chloride ..	3, 483
„ and Zinc, amalgam ..	6, 126	„ Bichloride ..	3, 481
„ Zinc and Lead, alloys ..	5, 181	„ Bichloride, expansion	
<i>Tinctura Camœa</i> , deposition of		of, by heat ..	1, 226, 229
camœum from ..	18, 144	„ Bifluoride ..	3, 482
Tinkal	3, 87	„ Bifluoride with	
Tinned iron plate ..	5, 314	sesquifluoride of	
Tinning by galvanic precipita-		iron ..	5, 292
tion ..	1, 501	„ Chlorides ..	3, 479
Tin-plate ..	5, 314	„ Chloride, compound	
„ -pyrites ..	5, 66, 496	of, with cyanide of	
„ -refuse ..	5, 67	ethyl ..	13, 457
„ -salt ..	5, 85	„ Chloride, compound	
„ -salts, solubility of, in al-		of, with cyanide of	
cohol ..	8, 270	methyl ..	13, 412
„ -seum ..	5, 67	„ Chloride with hy-	
„ -stone ..	5, 66, 71	drochloric acid ..	3, 481
„ -white Cobalt ..	5, 348	„ Chloride with phos-	
Titanates ..	3, 476	phuretted hydro-	
Titanate of Ammonia ..	3, 483	gen ..	3, 480
„ Ferrie oxide ..	5, 297	„ Cyanide? ..	7, 418
„ Ferrous oxide ..	5, 289	„ Ferrocyanide ..	7, 486
„ Manganous oxide ..	4, 245	„ Fluoride ..	3, 482
Titanates of Potash ..	3, 484	„ Nitrocyanide ..	3, 488; 7, 418
Titanate and Silicate of Lime ..	3, 488	„ Oxides ..	3, 469
„ and Silicate of Potash ..	3, 487	„ Oxy-fluoride ..	3, 482
Titanates of Soda ..	3, 485	„ Phosphide ..	3, 476
Titanate of Zirconia ..	3, 487	„ Sulphide ..	3, 477
Titanic Acetate ..	8, 305	„ and Ammonium, chlo-	
„ Acid ..	3, 471	ride ..	3, 484
„ Acid, hydrate ...	3, 475	„ and Ammonium, fluo-	
„ Arseniate ..	4, 311	ride ..	3, 484
„ Chloride ..	3, 481	„ and Calcium, fluo-	
„ Chloride, hydrocyanate		ide ..	3, 487
of ..	8, 148	„ and Copper, hydrated	
„ Hydrochlorate	3, 480	fluoride ..	5, 466
„ Nitrate ...	3, 483	„ and Cyanogen, chlor-	
„ Oxalate ..	9, 136	ide ..	8, 14
„ Oxide ..	3, 471	„ and Lead, fluoride ..	5, 16
„ Oxide with Fluxes ..	3, 486	„ and Magnesium,	
„ Phosphate ..	3, 177	fluoride ..	3, 487
„ Phosphite ..	3, 177	„ and Potassium, fluo-	
„ Rhodizonate ..	10, 402	ide ..	3, 481
„ Salts	3, 475	„ and Sodium, fluoride ..	3, 486
„ Sulphates	3, 478	„ and Sulphur, chloride ..	3, 481
„ Sulphite ..	3, 478	Titanous oxide ..	3, 469
„ Terhydrofluatate ..	3, 482	Tobacco camphor ..	14, 232
„ Tannate ..	15, 466	„ empyreumatic oil of ..	14, 234
„ Tartrate ..	10, 292	„ estimation of nicotine	
Titanide of Iron? ..	5, 289	in ..	14, 223
Titaniferous Iron ..	5, 289	„ occurrence of nicotine	
„ Schorl ..	3, 466, 474	in ..	14, 220
Titanite ..	3, 488	„ -seed oil ..	16, 314
Titanio-ammonio Carbonate ..	3, 483	Tolene ..	14, 312
„ -potassic Carbonate ..	3, 485	Tole ..	12, 226
„ „ Sulphate ..	3, 485	Tolu Balsam ..	17, 392
„ -sodic Carbonate ..	3, 486	„ preparation of cin-	
Titanium ..	3, 465	namic acid from ..	13, 270

Triplite	5, 301	Tungstate of Cobalt-oxide . . .	5, 346
" of Bodenmais ..	5, 303	" Cupric oxide . . .	5, 466
Trisarsenate of Ammonia . . .	4, 287	" Ferrous oxide . . .	5, 294
" Baryta . . .	4, 300	" Lead-oxide . . .	5, 166
" Lime . . .	4, 304	" Lime . . .	4, 44
" Potash . . .	4, 291	" Lithia . . .	4, 42
" Soda . . .	4, 295	" Magnesia . . .	4, 45
" Zinc-oxide . . .	5, 49	" Manganous oxide . . .	4, 246
Trisilicate of Manganic oxide . .	4, 244	" Mercuric oxide . . .	6, 111
" Yttria . . .	3, 509	" Mercuric oxide and	
Tristearin, decompositions of . .	17, 121	Ammonia . . .	6, 111
" isomeric modifications . . .		" Mercurous oxide . . .	6, 111
of . . .	7, 244; 17, 119	" Molybdic oxide . . .	4, 79
" preparation of . . .	17, 118	" Molybdic oxide and	
" properties of . . .	17, 118	Ammonia . . .	4, 79
" saponification of 17, 104, 122		" Nickel-oxide . . .	5, 386
Trisulphate of Mercuric oxide . .		" Potash . . .	4, 38
with Mercuric . . .		" Potash and Ammo-	
Amide . . .	6, 79	nia . . .	4, 40
" of Mercurous ox-		" Potash with Fluo-	
ide with Mer-		ride of Tungsten	
curous Amide? . . .	6, 78	and Potassium . . .	3, 46
" of Yttria . . .	3, 287	" Potash with Sul-	
Trithionates . . .	2, 167	photungstate of	
Trithionate of Baryta . . .	3, 150	Potassium . . .	4, 46
" Lead-oxide . . .	5, 135	" Silver-oxide . . .	6, 182
" Potash . . .	3, 37	" Soda . . .	4, 40
" Silver-oxide . . .	6, 153	" Soda with Fluoride	
" Soda . . .	3, 99	of Tungsten and	
" Zinc-oxide . . .	5, 21	Sodium . . .	4, 47
Trithionic acid . . .	2, 166	" Stannous oxide . . .	5, 100
" of . . .		" Strontia . . .	4, 43
Mercury-salts . . .		" Tungsten . . .	4, 45
Tritylamme . . .	9, 411	" Thorina . . .	4, 34
Trityl-compounds, see Propyl-		" Tungstic bromide . . .	4, 36
compounds.		" Tungstic chloride . . .	4, 45
Tritylic alcohol . . .	9, 398	" Tungstous oxide . . .	4, 46
Trivulern . . .	11, 76	" and Potash . . .	4, 192
Trivinilme . . .	5, 419	" Tungstous oxide . . .	4, 192
Trombolite . . .	3, 83	" Vanadic oxide . . .	4, 45
Trona . . .	14, 385	" Yttria . . .	5, 47
Tropaeolum, see Nasturtium		" Zinc-oxide . . .	4, 24
<i>Tropaeolum majus</i> , sudden emis-		Tungsten (metal) . . .	4, 41
sion of light by the flowers . .	1, 178	" (mineral) . . .	4, 47
of . . .	16, 457	" Alloys . . .	4, 31
Tropine . . .		" Bichloride . . .	4, 32
Trough battery, development of		" Bisulphide . . .	4, 35
heat in the troughs of . . .	1, 496	" Chlorides . . .	4, 37
Truffles, acrid resin of . . .	17, 453	" Fluoride . . .	4, 25
" fatty oil of . . .	17, 99	" Oxides . . .	4, 34
Tschornosem, or Russian black		" Oxybromide . . .	4, 32
earth, humous acids from . . .	17, 473	" Phosphide . . .	4, 32
Tulic acid . . .	4, 29	" Sulphides . . .	4, 35
Tungstates . . .	4, 45	" Terchloride . . .	4, 33
Tungstate of Alumina . . .	4, 37	" Tersulphide . . .	
" Ammonia . . .	4, 43		
" Baryta . . .	5, 65		
" Cadmic oxide . . .	4, 156		
" Chromic oxide . . .			

Tungsten Tersulphide, tungstate of . . .	4, 34	Turpentine -oil, brominated . . .	14, 437
" and Ammonium, fluoride of . . .	4, 38	" -oil, chlorinated . . .	14, 439
" and Copper, alloy of . . .	5, 466	" -oil, compounds of, with Oxygen . . .	14, 256
" and Gold, alloy of . . .	6, 237	" -oil, compounds of, with Water . . .	14, 258
" and Iron, carbide of . . .	6, 297	" -oil, decomposition of, by Acetic acid . . .	14, 251
" and Platinum, alloy of . . .	6, 331	" -oil, decomposition of, by Ammonia gas . . .	14, 251
" and Potassium, fluoride of, with Tungstate of Potash . . .	4, 46	" -oil, decomposition of, by atmospheric oxidation, . . .	14, 245
" and Silver, alloy of . . .	6, 182	" -oil, decomposition of, by Boracic acid . . .	14, 251
" and Sodium, fluoride of, with Tungstate of Soda . . .	4, 47	" -oil, decomposition of, by Bromine . . .	14, 248
Tungstic Acid . . .	4, 26	" -oil, decomposition of, by Carbonic acid . . .	14, 251
" Acid with Fluxes . . .	4, 42	" -oil, decomposition of, by Chlorate of Potash . . .	14, 254
" Acid, hydrochlorate of . . .	4, 37	" -oil, decomposition of, by Chloride of Ammonium . . .	14, 254
" Acid, nitrate of . . .	4, 37	" -oil, decomposition of, by Chloride of Barium . . .	14, 254
" Acid, sulphate of? . . .	4, 34	" -oil, decomposition of, by Chloride of Calcium . . .	14, 254
" Bromide, Tungstate of . . .	4, 34	" -oil, decomposition of, by Chloride of Strontium . . .	14, 254
" Chloride . . .	4, 35	" -oil, decomposition of, by Chloride of Zinc . . .	14, 254
" Chloride, Tungstate of . . .	4, 36	" -oil, decomposition of, by Chlorine gas . . .	14, 248
" Oxide, . . .	4, 25	" -oil, decomposition of, by Chlorochromic acid . . .	14, 253
Tungstide of Lead . . .	5, 166	" -oil, decomposition of, by Citric acid . . .	14, 251
Tungstous Chloride . . .	4, 35	" -oil, decomposition of, by the electric spark . . .	14, 246
" Oxide . . .	4, 25	" -oil, decomposition of, by Fluoride of Boron . . .	14, 252
" Oxide and Potash, tungstate of . . .	4, 45	" -oil, decomposition of, by Fluoride of Calcium . . .	14, 254
" Oxide and Soda, tungstate of . . .	4, 46	" -oil, decomposition of, by Fluoride of Silicon . . .	14, 252
Tunican. . .	15, 181	" -oil, decomposition of, by heat . . .	14, 246
" formation of Dextroglucose from . . .	15, 309	" -oil, decomposition . . .	
Turacin . . .	18, 419		
Turmeric, effect of sunshine on the colour of . . .	7, 95		
" -yellow, resinous . . .	16, 518		
Turnbull's Blue . . .	7, 435		
Turnip oil . . .	17, 554		
Turnip-stemmed Cabbage, oil of . . .	17, 554		
Turpentine of Bordeaux . . .	18, 19		
" Canada . . .	18, 19		
" Carolina . . .	18, 19		
" commercial English . . .	18, 19		
" common . . .	18, 11		
" of Strasburg . . .	18, 17		
" of Venice . . .	18, 18		
" -camphor . . .	14, 258		
" -camphor, aqueous . . .	14, 263		
" -camphor, crystallised . . .	14, 262		
" -camphor, liquid . . .	14, 263		
" -oil . . .	14, 239		
" -oil, adulteration of expensive oils with . . .	7, 162		
" -oil, Bihydrochlorate of, with Hydrochlorate of Terebene . . .	14, 275		

	of, by Hydriodic acid	14, 252	Turpentine - oil, Hydriodate	14, 269
Turpentine - oil,	decomposition of, by Hydrobromic acid	14, 252	" -oil, Hydrobromate	14, 269
" -oil,	decomposition of, by Hydrochloric acid	14, 252	" -oil, Hydrochlorate	14, 265
" -oil,	decomposition of, by Hydrofluoric acid	14, 252	" -oil, modifications of	14, 242
" -oil,	decomposition of, by Iodide of Ammonium	14, 254	" -oil, Monohydrochlorate	14, 265
" -oil,	decomposition of, by Iodine	14, 248	" -oil, natural oils isomeric with	14, 281
" -oil,	decomposition of, by Lime	14, 254	" -oil, oils isomeric with	14, 271
" -oil,	decomposition of, by Litharge and Minum	14, 254	" -oil, oxidizing properties of oxygenated	14, 508
" -oil,	decomposition of, by Nitric acid	14, 249	" -oil, ozonised	14, 256
" -oil,	decomposition of, by Nitrous acid	14, 250	" -oil, preparation of terephthalic acid from	13, 13
" -oil,	decomposition of, by Nitroprusside of Copper	14, 254	" -oil, resins from	18, 20
" -oil,	decomposition of, by Oxalic acid	14, 251	" -oil, solutions of, in alcohol, acetone, wood-spirit, &c.	14, 271
" -oil,	decomposition of, by Oxygen gas	14, 247	" -oil, solutions of other bodies in	14, 270
" -oil,	decomposition of, by Potash	14, 253	" -oil, vapour-tension of, at different temperatures	1, 262
" -oil,	decomposition of, by Potassium	14, 253	Turpethic acid	17, 454
" -oil,	decomposition of, by Sulphide of Phosphorus	14, 253	Turpethin	17, 454
" -oil,	decomposition of, by Sulphuric acid	14, 250	Turpetholic acid	17, 455
" -oil,	decomposition of, by Tartaric acid	14, 251	Turpeth-resin	17, 455
" -oil,	English	14, 242	<i>Turpethum ammoniacale</i>	16, 79
" -oil,	extraction and purification of	14, 241	" <i>minérale</i>	6, 28
" -oil,	French	14, 242	Turquoise	3, 309
" -oil,	Hydrate of	14, 258	Turtle fat	16, 400
" -oil,	Hydrated oxide of	14, 256	<i>Tussulago farfara</i> , ferment-oil of	14, 406
			Two-fifths Hydrocarbon, <i>see</i> Naphthalin	14, 1
			Two-thirds Cyanide of Copper	3, 1
			" Silicate of Alumina	3, 411
			" Silicate of Magnesia	3, 395
			Type-metal	5, 175
			Types, Dumas' theory of	7, 15
			" general view of	7, 153
			" and substitution, connection of theory of, with the radical theory	7, 16
			Typhoxyhn	15, 176
			Tyrosine	13, 358
			Tyrosine-sulphuric acid	13, 362

U.

Ulmic acid	15, 158	Ulmín, action of nitric acid on	17, 465
" (Boullay's)	17, 462	" action of oil of vitriol on	17, 465
" (Mulder's)	17, 472	" and Ulmic acid, formation of, from cane-sugar	15, 255
" (Peligot's)	17, 466		
Ulmín, action of chlorine on	17, 464		

Ultimate analysis of organic compounds ..	7, 86	Uranic Succinate ..	10, 123
Ultramarine ...	3, 457	„ Succate, colloidal ..	15, 539
Umbelliferone obtained by dry distillation of galbanum resin	17, 238	„ Sulphantimonate	4, 391
Undecomposed, ponderable substances, division of, into metalloids and metals ..	2, 1	„ Sulpharsenate ..	4, 314
Uniaxial Mica ..	3, 428	„ Sulpharsenite ..	4, 314
Unsataponifiable Fats ..	7, 229	„ Sulphates ..	4, 176
<i>Upas Treutzi</i> , preparation of strychnine from ..	17, 481	„ Sulphite ..	4, 174
Upas tree, preparation of antiarin from the sap of	16, 217	„ Sulphocarbonate ? ..	4, 178
Uralite ..	3, 406	„ Sulphocyanide ..	8, 86
Uramil ...	10, 178	„ Sulphomethylate	7, 306
„ preparation of murexide from ..	10, 194	„ Sulphomolybdate	4, 193
Uramic acid ..	10, 190	„ Sulphovmate	8, 425
Uranates ..	4, 170	„ Tartrate ..	10, 295
Urate of Ammonia ..	4, 183	„ Tellurate	4, 426
„ Baryta ..	4, 190	„ Tellurite ..	4, 426
„ Lead-oxide ..	5, 172	„ Tungstate ..	4, 192
„ Lime ..	4, 190	„ Valerate ..	11, 43
„ Magnesia ..	4, 192	„ Vanadate ..	4, 193
„ Potash ..	4, 186	Uranico-ammonic Acetate ..	8, 307
„ Silver-oxide ..	6, 186	„ Carbonate ..	4, 181
„ Soda ..	4, 189	„ Hydrochlorate ..	4, 186
„ Zinc-oxide ..	5, 49	„ Sulphate ..	4, 185
Uranic Acetate ..	8, 306	Uranico-argentic Acetate ..	8, 333
„ Arseniate ..	4, 813	„ -barytic Acetate ..	8, 307
„ Benzoate ..	12, 41	„ -calcic Carbonate ..	4, 190
„ Borate ..	4, 170	„ -calcic Phosphate ..	4, 191
„ Bromate ..	4, 179	„ -calcic Sulphate ..	4, 191
„ Carbonate ..	4, 170	„ -cupric Phosphate ..	4, 468
„ Chromate ..	4, 194	„ -magnesian Acetate ..	8, 307
„ Croconate ..	10, 393	„ -plumbic Acetate ..	8, 320
„ Cyanide ? ..	7, 421	„ -potassic Carbonate ..	4, 187
„ Hydrobromate ..	4, 179	„ -potassic Acetate ..	8, 307
„ Hydrochlorate ..	4, 182	„ -potassic Sulphate ..	4, 188
„ Iodate ..	4, 178	„ -sodic Acetate ..	8, 307
„ Lactate... ..	11, 486	„ -sodic Arsenate	4, 313
„ Malate	10, 220	„ -sodic Carbonate	4, 189
„ Molybdate ..	4, 193	„ -sodic Pyrophosphate ..	4, 190
„ Nitrites ..	4, 182	Uranide of Iron ? ..	5, 300
„ Oche ..	4, 169	Uranite ..	4, 159
„ Oxalate ..	9, 143	„ Calcareous ..	4, 191
„ Oxide	4, 167	Uranium ..	4, 157
„ Oxide, reactions of, with organic acids ..	7, 209	„ Alloys ..	4, 194
„ Oxide, reaction of, with tannic acid ..	15, 466	„ Ammonio-chloride ..	4, 186
„ Persulphomolybdate ..	4, 193	„ Bromide ..	4, 179
„ Phosphate ..	4, 171	„ Camphorate ..	14, 461
„ Pyrotartrate ..	11, 92	„ Chlorides ..	4, 180
„ Rhodizonate	10, 408	„ Citrates ..	11, 453
„ Salts ..	4, 169	„ Cuprocyanide	8, 7
„ Selenite	4, 178	„ double Acetates ..	13, 443
„ Sulphate ..	18, 210	„ Fluoride ..	4, 182
		„ with Fluxes ..	4, 189
		„ Iodide ..	4, 178
		„ Oxides ..	4, 159
		„ Sulphide ..	4, 178
		„ and Iron, cyanides ..	7, 458
		„ and Lead, acetate	8, 320
		Uranoso-ammonic Carbonate ..	4, 184
		„ Sulphate ..	4, 185
		Uranoso-potassic Sulphate ..	4, 187



AGRICULTURAL RESEARCH INSTITUTE
PUSA